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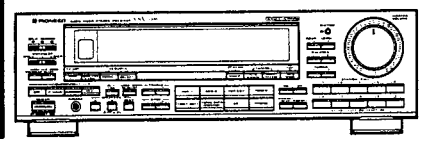
The future of sound and vision.

Service Manual



ORDER NO.
ARP1597

AUDIO/VIDEO STEREO RECEIVER

VSX-5300
VSX-5300S

VSX-5300 AND VSX-5300S HAVE TWO VERSIONS:

Type	Applicable Model		Power requirement	Export destination
	VSX-5300	VSX-5300S		
KUC	O	O	AC120V only	U.S.A. and Canada
SD/G	O	–	AC110V, 120V–127V, 220V, 240V (switchable)	U.S. Military

- This manual is applicable to the VSX-5300/KUC, SD/G AND VSX-5300S/KUC types.
- For the VSX-5300/SD/G and VSX-5300S/KUC types, refer to pages 43, 44.
- The "S" at the end of the model number indicates that a programable remote control unit is supplied.

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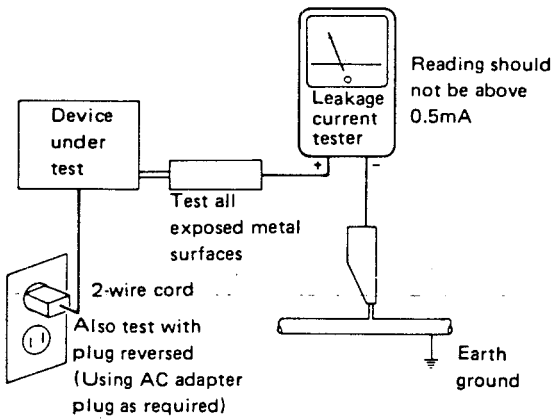
1. SAFETY INFORMATION

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
Test all exposed metal surfaces
2-wire cord
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

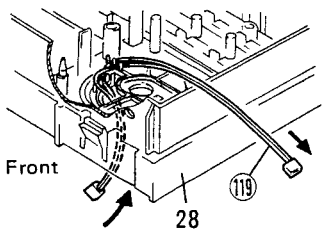
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

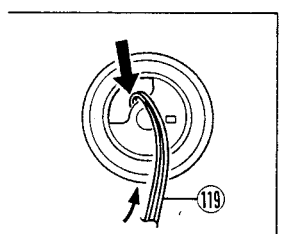
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

• NOTE FOR INSTALLATION OF VR LED ASSEMBLY

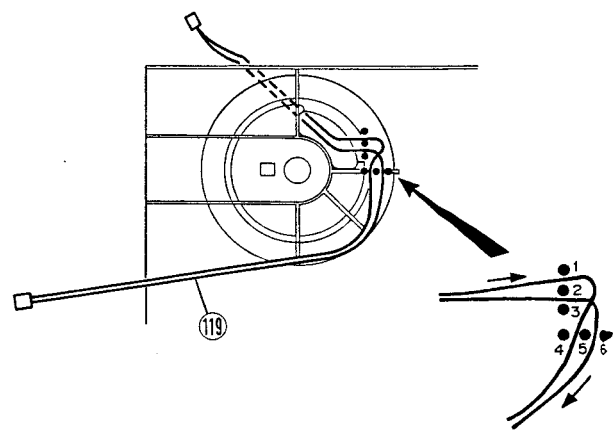
Step 1 : Run the lead wire (No.119) through the hole indicated by the arrow in the Fig. below from the face of panel base (No.28).



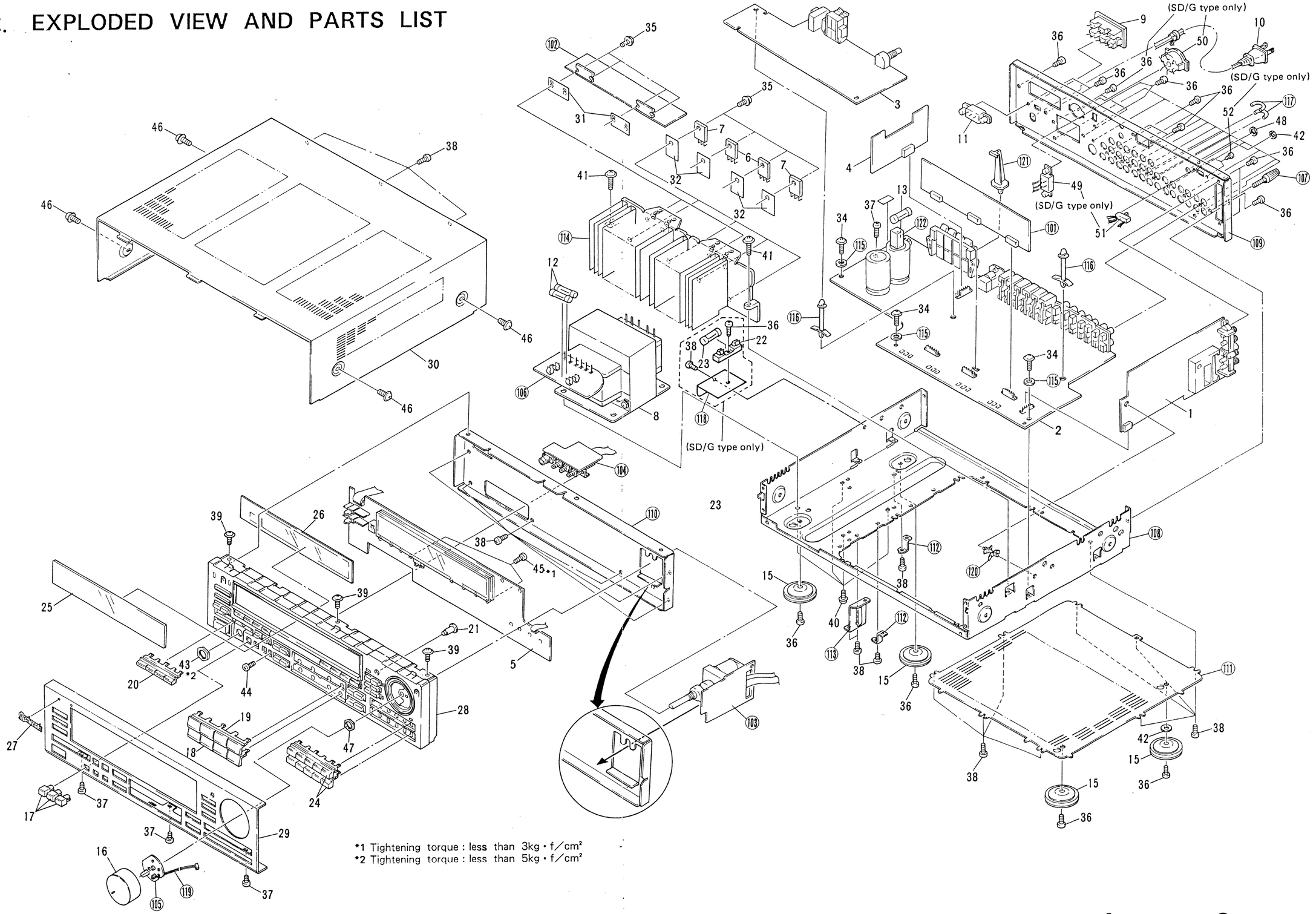


Front panel face
VR knob hole

Step 2 : Run the lead wire through the spaces between the bosses at the rear side of the panel base as shown in the Fig. below.
Run one of the wires through the spaces between boss 1 and boss 2, and boss 4 and boss 5, and the other through the spaces between boss 2 and boss 3, and boss 5 and boss 6.
(Insert the wires deep between the bosses.)



2. EXPLODED VIEW AND PARTS LIST



NOTES :
- Parts without part number cannot be supplied.
- The ⚠ mark found on some component parts indicates the impotance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

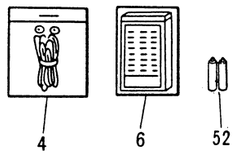
Parts List of Exterior

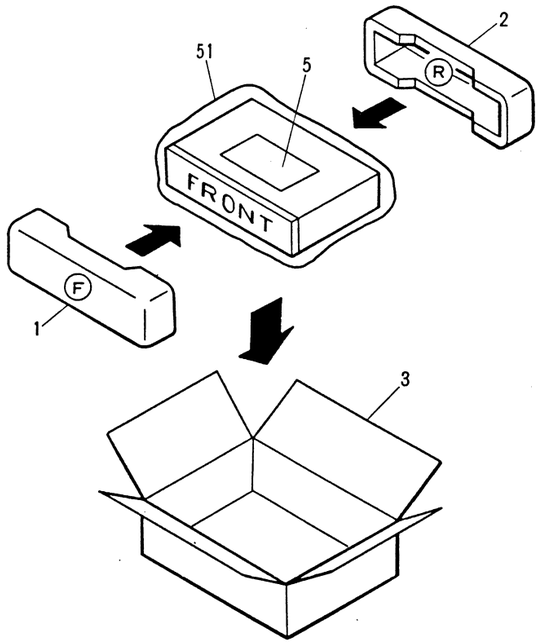
Mark	No.	Part No.	Description
	1	AWE1076	Tuner assembly
	2	AWZ1813	AF video assembly
	3	AWZ1814	Surround assembly
	4	AWZ1817	Enhancer assembly
	5	AWZ1818	μ COM display assembly
⚠	6	2SA1302	Transistor (Q1, Q3)
⚠	7	2SC3281	Transistor (Q2, Q4)
⚠	8	ATS1146	Power transformer (T1, AC120V)
⚠	9	AKP-515	AC socket 3P (AC OUTLET)
⚠	10	ADG1031	AC power cord
⚠	11	AKX1004	Slide switch (S1, SPEAKER IMPEDANCE)
⚠	12	AEK-100	Fuse (FU3, FU4, 4A/125V)
⚠	13	AEK-304	Fuse (FU1, 8A/125V)
⚠	14	.....	.....
	15	AEP-251	Leg
	16	AAB1056	Knob (MASTER VOLUME)
	17	AAD1328	Knob (SPEAKERS A, B, REAR)
	18	AAD1393	Knob (TAPE1/DAT1, TAPE2/DAT2 MONITOR, CD, PHONO)
	19	AAD1392	Knob (VCR1, VCR2, VDP/CDV,TUNER)
	20	AAD1397	Knob (SURROUND OFF, STADIUM, S-SURROUND, DOLBY SURROUND)
	21	AAD1398	Knob (MUTING)
	22	AKR-032	Fuse Holder (SD/G type only)
	23	AEK-100	Fuse (FU2,4A/125V, SD/G type only)
	24	AAD1406	Knob (STATION CALL)
	25	AAK1514	Acrylic panel
	26	AAK1515	FL filter
	27	AAM-030	Friction plate
	28	AMB1400	Panel base assembly
	29	ANB1207	Front panel
	30	ANE1043	Bonnet case
	31	AEP-057	Mica sheet
	32	AEP-313	Mica sheet
	33	.....	.....
	34	ABA-283	Screw
	35	ABA-297	Screw M3×19
	36	ABA-298	Screw
	37	ABA1006	Screw M3×8
	38	ABA1009	Screw
	39	ABA1011	Screw
	40	ABA1031	Screw M4×8
	41	ABA1052	Screw M3×12
	42	ABE-053	Washer
	43	ABN-065	Nut
	44	VMZ30P060FMC	Screw
	45	BBZ26P060FMC	Screw
	46	FBT40P080FZK	Screw
	47	NK90FUC	Nut
	48	ABN1006	Nut
	49	AKX1004	Line voltage selector (S2,SD/G type only) (110-127/220-240V)
	50	AKX-507	Line voltage selector (S3,SD/G type only) (110/120-127/220/240V)
	51	ASH-004	Slide switch (S4,SD/G type only) (Channel step/FM De-emphasis)
	52	VMZ26P040FZK	Screw (SD/G type only)
	101		Power amp assembly
	102		Rear power amp assembly
	103		Master volume assembly
	104		SP switch assembly
	105		VR LED assembly
	106		Fuse assembly
	107		Terminal (GND)
	108		Chassis
	109		Rear panel
	110		Panel stay
	111		Bottom plate
	112		PCB holder
	113		Heat sink holder
	114		Heat sink
	115		Spacer ring
	116		PCB supporter
	117		Pin jack plug
	118		Holder Plate (SD/G type only)
	119		Lead wire
	120		PCB supporter
	121		PCB supporter
	122		Cushion

3. PACKING

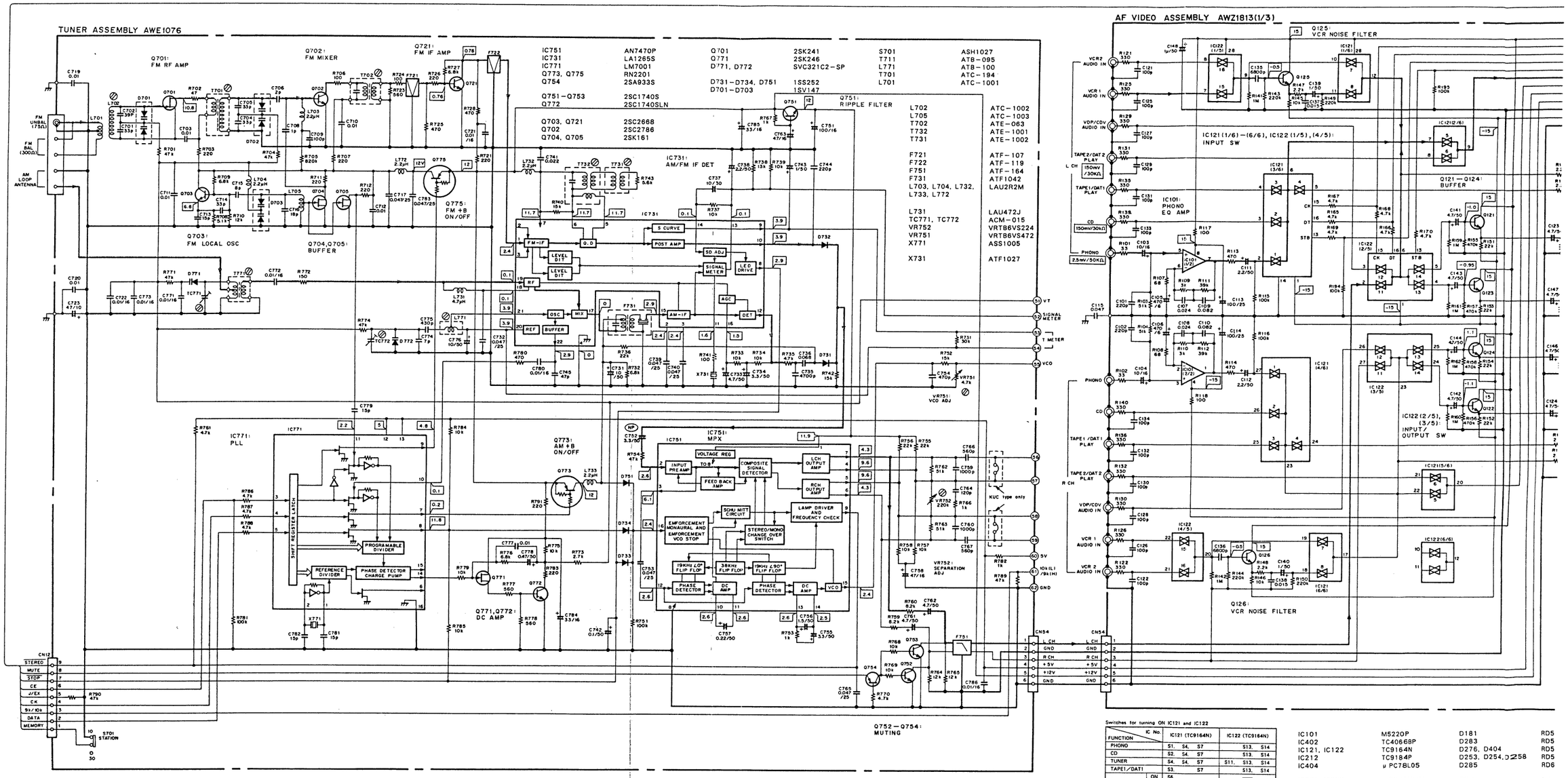
Part List of Exterior

Mark	No.	Part No.	Description
	1	AHA1020	Front pad
	2	AHA1021	Rear pad
	3	AHD1441	Packing case
	4	AEA1002	Antenna set
	5	ARB1113	Operating instructions (English)
	6	AXD1056	Remote control unit
	51		Packing sheet
	52		Battery





4. SCHEMATIC DIAGRAM



1. RESISTORS :
Indicated in Ω, 1/4W, 1/8W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10%, (M) : ±20% tolerance.

2. CAPACITORS :
Indicated in capacity (µF) / voltage (V) unless otherwise noted p : pF.
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE CURRENT :
: DC voltage (V) at no input signal.
e–mA : DC current at no input signal.

4. OTHERS
: Signal route.
: Adjusting point.
The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistor have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES (Underline indicates switch position)
Outside of PC board
S1 : IMPEDANCE SELECTOR LESS THAN 8Ω – 8Ω OR MORE
S2 : VOLTAGE SELECTOR 110-120V – 220-240V (SD/G type only)
S3 : VOLTAGE SELECTOR 240/120–127/110/220V (SD/G type only)
S4 : DE–EMPHASIS 75 – 50µS (SD/G type only)

TUNER ASSEMBLY
S701 : STATION 10 – 30

µ COM DISPLAY ASSEMBLY
S801 : TUNING+
S802 : FM
S803 : TUNING AUTO/MANUAL
S804 : REAR LEVEL+
S805 : BALANCE L
S806 : TREBEL+
S807 : BASS+
S808 : TUNING–
S809 : AM
S810 : TUNING DIRECT ACCESS

S811 : REAR LEVEL–
S812 : BALANCE R
S813 : TREBLE–
S814 : BASS–
S815 : STATION CALL ※1
S816 : STATION CALL ※6
S817 : FM MODE AUTO/MONO
S818 : SIMULATED STEREO
S819 : MUTING
S820 : ACOUSTIC MEMORY
S821 : VCR NOISE FILTER
S822 : STATION CALL ※2
S823 : STATION CALL ※7
S824 : MEMORY
S825 : VIDEO SIGNAL SELECTOR
S826 : TAPE2/DAT2 MONITOR
S827 : ACOUSTIC SELECT
S828 : VIDEO ENHANCER
S829 : STATION CALL ※3
S830 : STATION CALL ※8

S831 : MEMORY SCAN
S832 : VCR1
S833 : TAPE1/DAT1
S834 : DELAY TIME
S835 : SURROUND OFF
S836 : STATION CALL ※4
S837 : STATION CALL ※9
S838 : STATION NAME
S839 : VCR2
S840 : CD
S841 : DOLBY SURROUND
S842 : TV ANT VIDEO/TV
S843 : STATION CALL ※5
S844 : STATION CALL ※10
S845 : VDP/CDV
S846 : TUNER
S847 : SURROUND STUDIUM
S848 : POWER STANDBY/ON
S849 : PHONO
S850 : SIMULATED SURROUND

SP SWITCH ASSEMBLY
S380 (1/3) : SPEAKERS A ON – OFF
S380 (2/3) : SPEAKERS B ON – OFF
S380 (3/3) : SPEAKERS REAR ON – OFF

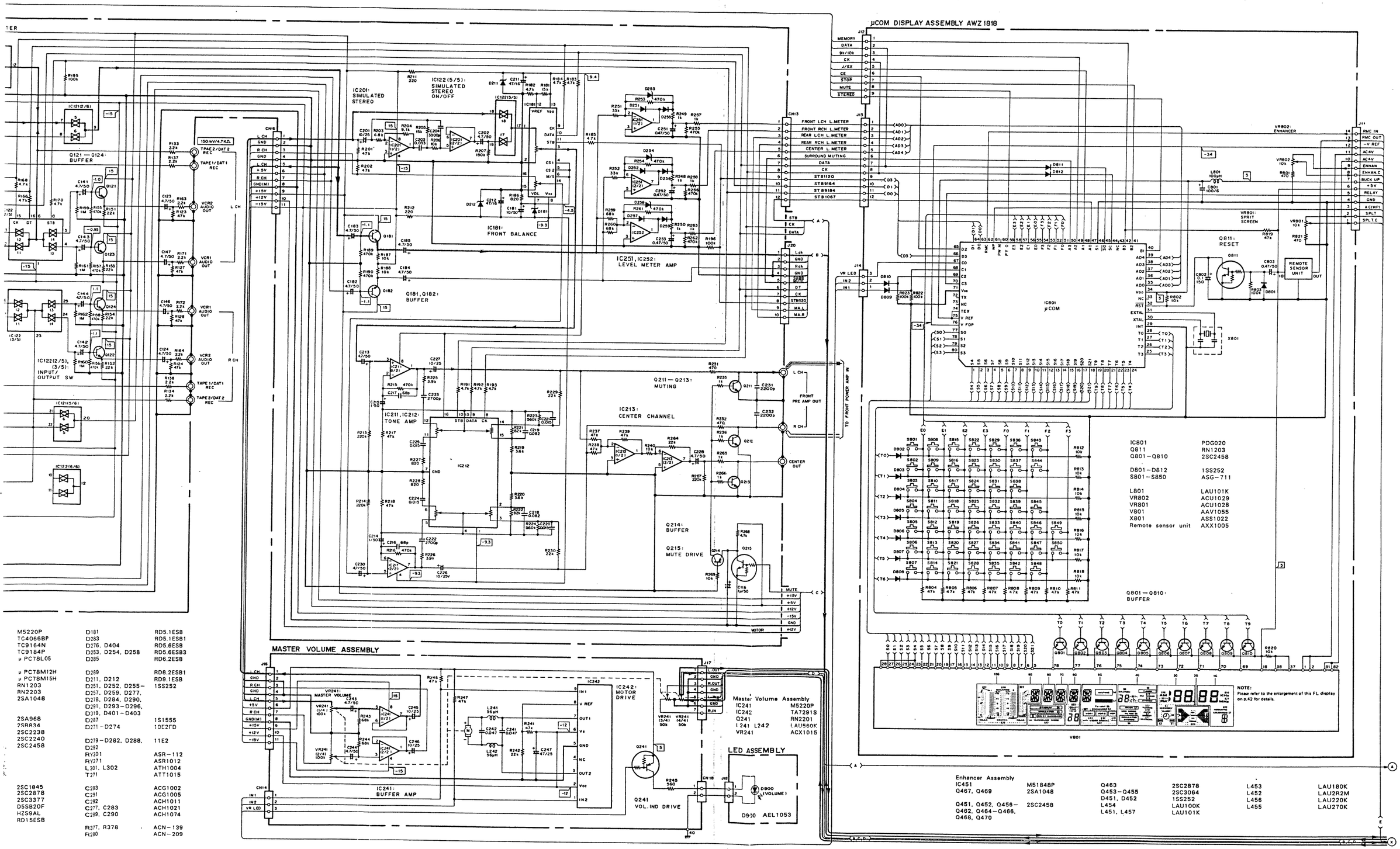
Switches for turning ON IC121 and IC122

FUNCTION		IC No.	IC121 (TC9164N)	IC122 (TC9164N)
PHONO			S1, S4, S7	S13, S14
CD			S2, S4, S7	S13, S14
TUNER			S4, S4, S7	S11, S13, S14
TAPE1/DAT1			S3, S7	S13, S14
TAPE2/DAT2	ON		S6	——
	OFF		S5	——
VCR1			S4, *S7, *S8	S14, S15
VCR2			S4, *S7, *S8	S13, S16
VDP/CDV			S4, S7	S12, S13, S14
VCR NOISE FILTER	ON		* S8	——
	OFF		*S7	——
SIMULATED STEREO	ON		——	S17
	OFF		——	S18

* : Turn ON/OFF by synchronizing with VCR NOISE FILTER indicator only when FUNCTION is VCR1 or VCR2.
The indicator only changes, and the switches (S7, S8) do not change when FUNCTION is other than VCR1 or VCR2.

AF Video Assembly

IC401	CX–894
IC403	CXD1067P
IC181	CXD1120P–1
IC201, IC213, IC251, IC252	M5218LF
IC211	M5220L
IC101	M5220P
IC402	TC40668P
IC121, IC122	TC9164N
IC212	TC9184P
IC404	µ PC78L05
IC271, IC272	µ PC78M12H
IC273	µ PC78M15H
Q215, Q409, Q412	RN1203
Q410, Q411	RN2203
Q214, Q315, Q401	2SA1048
Q311, Q312	2SA968
Q271	2SB834
Q309, Q310	2SC2238
Q320	2SC2240
Q121–Q126, Q181, Q182, Q211, Q212, Q273, Q275, Q276, Q316–Q319, Q402, Q403, Q406–Q408, Q471	2SC2458
Q413, Q414	2SC1845
Q213, Q404, Q405	2SC2878
Q272, Q274	2SC3377
D286	D5SB20F
D318	HZS9AL
D275	RD15ESB
D181	RD5
D283	RD5
D276, D404	RD5
D253, D254, D258	RD5
D285	RD6
D289	RD8
D211, D212	RD9
D251, D252, D255–D257, D259, D277, D276, D284, D290, D291, D293–D296, D319, D401–D403	1SS
D287	1S1
D271–D274	10E
D279–D282, D288, D292	11E
RY301	ASF
RY271	ASF
L301, L302	ATI
T271	AT
C293	AC
C291	AC
C292	AC
C277, C283	AC
C289, C290	AC
R377, R378	AC
R280	AC



M5220P	D181	RD5.1ESB
TC4066BP	D283	RD5.1ESB1
TC9164N	D276, D404	RD5.6ESB
TC9184P	D253, D254, D258	RD5.6ESB3
μ PC78L05	D285	RD6.2ESB
μ PC78M12H	D289	RD8.2ESB1
μ PC78M15H	D211, D212	RD9.1ESB
RN1203	D251, D252, D255−	1SS252
RN2203	D257, D259, D277,	
2SA1048	D278, D284, D290,	
	D291, D293−D296,	
	D319, D401−D403	
2SA968	D287	1S1555
2SB834	D271−D274	10E2FD
2SC2238		
2SC2240	D279−D282, D288,	11E2
2SC2458	D292	
	RY301	ASR−112
	RY271	ASR1012
	L301, L302	ATH1004
	T271	ATT1015
2SC1845	C293	ACG1002
2SC2878	C291	ACG1005
2SC3377	C292	ACH1011
D5SB20F	C277, C283	ACH1021
HZS9AL	C289, C290	ACH1074
RD15ESB		
	R377, R378	ACN−139
	R280	ACN−209

Master Volume Assembly		Enhancer Assembly			
IC241	M5220P	IC451	M51848P	Q463	2SC2878
IC242	TA7291S	Q467, Q469	2SA1048	Q453−Q455	2SC3064
Q241	RN2201			Q451, Q452	1SS252
L241 L242	LAU560K	Q451, Q452, Q456−	2SC2458	L454	LAU100K
VR241	ACX1015	Q462, Q464−Q466,		L451, L457	LAU101K
		Q468, Q470			

IC801	PDG020	L453	LAU180K
Q811	RN1203	L452	LAU2R2M
Q801−Q810	2SC2458	L456	LAU220K
D801−D812	1SS252	L455	LAU270K
S801−S850	ASG−711		
L801	LAU101K		
VR802	ACU1029		
VR801	ACU1028		
V801	AAV1055		
X801	ASS1022		
Remote sensor unit	AXX1005		

AF VIDEO ASSEMBLY AWZ1813(2/3)

IC401: VIDEO FUNCTION

IC403: INPUT, OUTPUT CONTROLER

IC402: ENHANCER ON/OFF

IC404: REGULATOR

Q401,Q402: 6dB AMP

Q403,Q406: BUFFER

Q404,Q405: MUTING

Q407: BUFFER

Q408,Q413,Q414: BUFFER

Q409,Q410: ENHANCER ON/OFF

Q411,Q412: RF MOD ON/OFF

IC403 (CXD1067P) terminal logic.(1/2)

FUNCTION \ Pin No.	1	2	3	4	5	6	7	8	9	11	12
PHONO	L	L	L	H							
CD	L	L	L	H							
TUNER	L	L	L	H							
TAPE1/DAT1	L	L	H	L							
VCR1	L	H	L	L							
VCR2	L	L	H	L							
VDP/CDV	H	L	L	L							

IC403 (CXD1067P) terminal logic. (2/2)

FUNCTION \ Pin No.	1	2	3	4	5	6	7	8	9	11	12
ENHANCER ON					H						
ENHANCER OFF					L						
DELAY TIME 15ms						H	L	L			
DELAY TIME 20ms						L	H	L			
DELAY TIME 30ms						L	L	H			
DOLBY									H	H	L
STADIUM									L	H	L
SIMULATED									L	L	L

NOTE: Parts list for AF VIDEO ASSEMBLY AWZ1813 (2/3) schematic diagram is included in the parts list for AWZ1813(1/3) on pp.8-9.

ENHANCER ASSEMBLY AWZ1817

Q451,Q452 BUFFER

MULTIPLIER

CHROMA TRAP

Q456: REF VOLTAGE

Q457: BUFFER

DELAY

Q458,Q459: BUFFER

Q460,Q461: BUFFER

MIXER

SYNC SEPARATOR

Q470: RESET

Q471: START TRIGER

IC451,Q463: SPRIT SCREEN CONTROL

Q462,Q464: BUFFER

Q465,Q466 BUFFER

SURROUND AMP ASSEMBLY AWZ1814 (1/2)

IC501,Q503: SWITCHING

VR501: SURROUND BALANCE

VR502: DOLBY LEVEL ADJ

Q505: BUFFER

IC531: COMPARATOR

IC532 DEGITAL DELAY

IC533: 64k RAM

IC621	CXD1120P-1
IC561	LA2730
IC533	M5K4164AP
IC532	M50199P
IC501	M5201P
IC623	M5218LF
IC562, IC591	M5218PF
IC622	M5220P
IC531	M5233P
IC594	TC4066BP
Q503, Q591	RN1203
Q505, Q592, Q623	2SA1048
Q593, Q594	2SC2458
Q621, Q622	2SC2878
D593	HZS6AL
D591, D592	RD10ESB1
D627	RD5.1ESB
D629, D630	RD5.6ESB3
D531-D535, D594, D621-D624, D628, D631	1SS252

IC562(1/2): BUFFER

IC591: MATRIX

IC592: SURROUND MODE

IC621: REAR VOLUME & BALANCE

Q593,Q594: STADIUM/SIMULATED SWITCH

IC561: DOLBY B

IC562(2/2): ADDER

IC623: METER AMP

Q623: BUFFER

RY501
VR501
VR502
X531

POWER AMP ASSEMBLY

Q301—Q308, IC301, IC302:
POWER AMP(1/2)

AF VIDEO ASSEMBLY AWZ1813(3/3)

Q309—Q312, Q1—Q4:
POWER AMP(2/2)

SP SWITCH ASSEMBLY

S380 SUL6LXXXS

SPEAKERS A S380 (1/3)

SPEAKERS B S380 (2/3)

S380 (3/3) REAR SPEAKERS

PHONES 67mV/8Ω

SPEAKERS(FRONT) 28.3V/8Ω

Q1, Q3 2SA1302
Q2, A4 2SC3281

VIDEO SIGNAL ROUTE
ENHANCER SIGNAL
MAIN ROUTE FOR AUDIO SIGNAL
DELAYED SIGNAL
DIGITAL SIGNAL(BFORE DELAY) OR SUB ROUTE FOR AUDIO SIGNAL
DIGITAL SIGNAL(AFTER DELAY)

NOTE: Parts list for AF VIDEO ASSEMBLY AWZ1813 (3/3) schematic diagram is included in the parts list for AWZ1813(1/3) on pp.8-9.

Q313, Q314:
OVERLOAD DET

Q315:
OVERLOAD DET

Q316, Q320:
RELAY DRIVE

Q318, Q319:
DC DET

Q317:
POWER OFF DET

Q273:
CURRENT REGULATOR

IC271—IC273, Q271, Q272:
VOLTAGE REGULATOR

FUSE ASSEMBLY

C901 ACG1005

T1 POWER TRANSFORMER ATS1146

T271 POWER TRANSFORMER

Q276:
BUFFER

Q274:
VOLTAGE REGULATOR

Q275:
RELAY DRIVE

AC POWER CORD ANO1051

AC 120V 60Hz

SWITCHED 300W MAX

UN SWITCHED 200W MAX

AC OUTLETS AKP-515

Power Amp Assembly

IC301, IC302	PA0016	Q307, Q308	2SC2705	
Q305, Q306	2SA1145			
Q301, Q302	2SA879	D317	RD24ESB	FROM FRONT PREAMP OUT
Q303, Q304, Q313, Q314	2SC2240	D301—D316, D318, D319	1SS252	

REAR POWER AMP ASSEMBLY AWZ1815

IC651, IC652 μPC1188H
L651, L652 ATH1011

SURROUND AMP ASSEMBLY AWZ1814(2/2)

IC621: REAR VOLUME & BALANCE

IC622: FLAT AMP

Q621, Q622: SURROUND ON/OFF

Q623: BUFFER

RY501	ASR1005	
VR501	ACS1024	
VR502	VRTB6VS223	
X531	ASS1016	

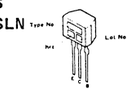
IC532 DEGITAL DELAY

5. P.C. BOARDS CONNECTION DIAGRAM

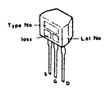
• View from conponent side

External appearance of transistors and ICs

2SA933S
2SC1740S
2SC1740SLN
2SC2668

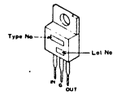


2SK161

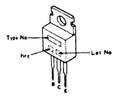


M5218LF
M5220L

μPC78M12H
μPC78M15H



2SA968
2SB834
2SC2238

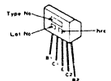


2SK241

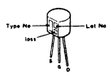
M5218PF
M5220P
M5233P
M51848P

2SC3064

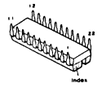
2SA979



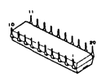
2SK246



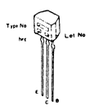
M50199P



CXD1067P

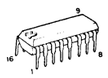


2SA1048
2SC2458

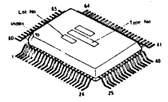


AN7470P
CXD1120P-1
LM7001
TC9184P

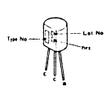
M5K4164AP



PDG020



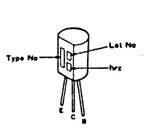
2SA1145
2SC2240
2SC2705
2SC2878



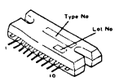
CX-894
TA7291S

RN1203
RN2201
RN2203

2SC1845



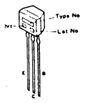
2SA1302
2SC3281



LA1265S

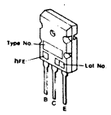
TC9164N

2SC2786

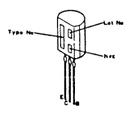


LA2730
PA0016
TC4066BP

μPC1188H



2SC3377



M5201P

μPC78L05

NOTE

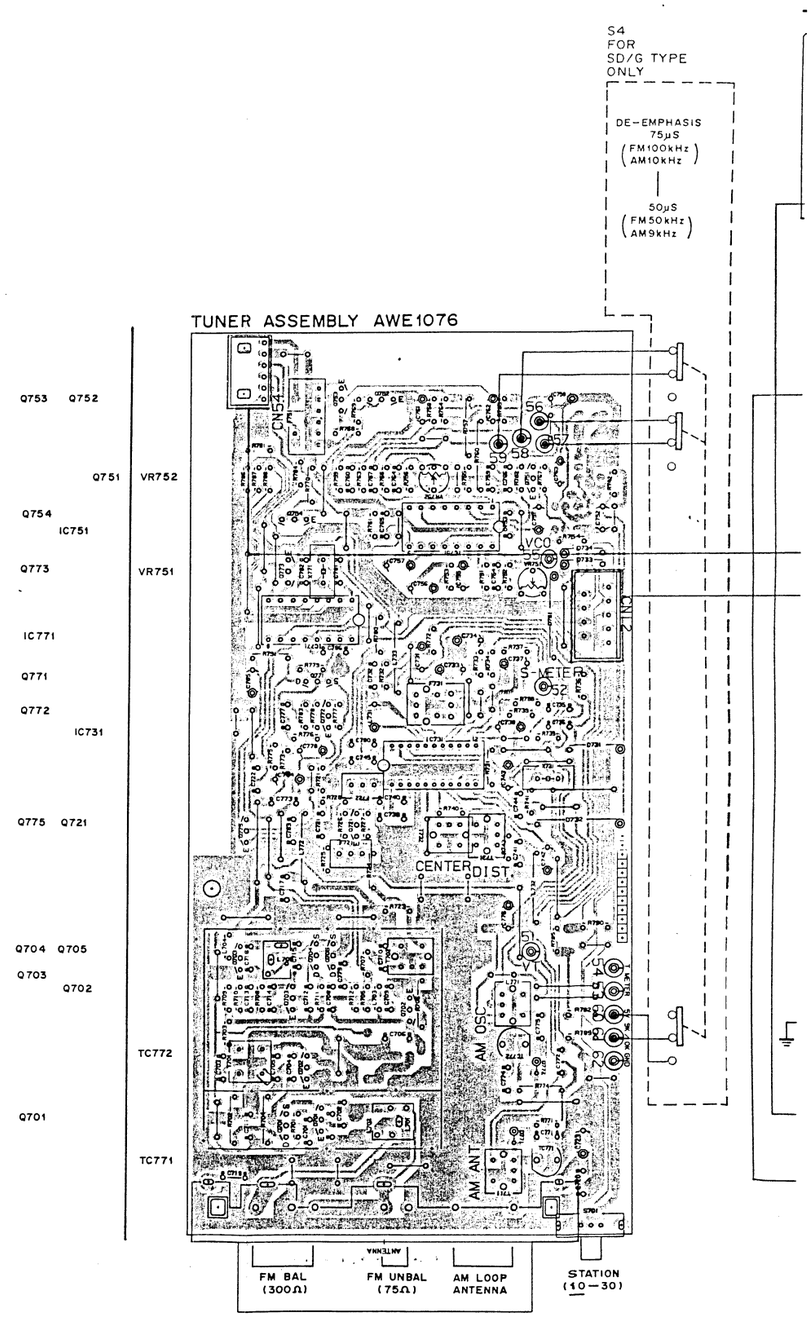
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 (E B C)	or	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⓞ(double circles) shows negative terminal.
4. The diode terminal marked with ⓞ(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



7 8 9 10 11 12

µCOM DISPLAY ASSEMBLY AWZ1818

Q809 Q808
Q807 Q806 Q810
Q805 Q804

Q802 Q811
Q803 Q801 IC801

VR802 VR801

S4
FOR
SD/G TYPE
ONLY

DE-EMPHASIS
75µS
(FM100kHz
AM10kHz)
|
50µS
(FM50kHz
AM9kHz)

LED ASSEMBLY

CN18

VCO

METER

DIST

AM OSC

AM LOOP ANTENNA

STATION (10 — 30)

MASTER VOLUME ASSEMBLY

IC241

IC242

Q241

CN4

CN3

SURROUND ASSEMBLY AWZ1814

IC623 Q605 IC621 IC622 IC501 Q503 IC594 Q594 Q592 Q591 Q622 IC591 Q621 Q623 IC562 IC561 IC531 IC532 IC533

VR501

REAR LEVEL MAKE BLOCK SUR. MODE SELECT

DOLBY SUR. BLOCK

METER AMP BLOCK

R-CH L-CH

SPAREMOTION PERM. BLOCK

ADM BLOCK

L-R, L-R MAKE BLOCK

BALANCE

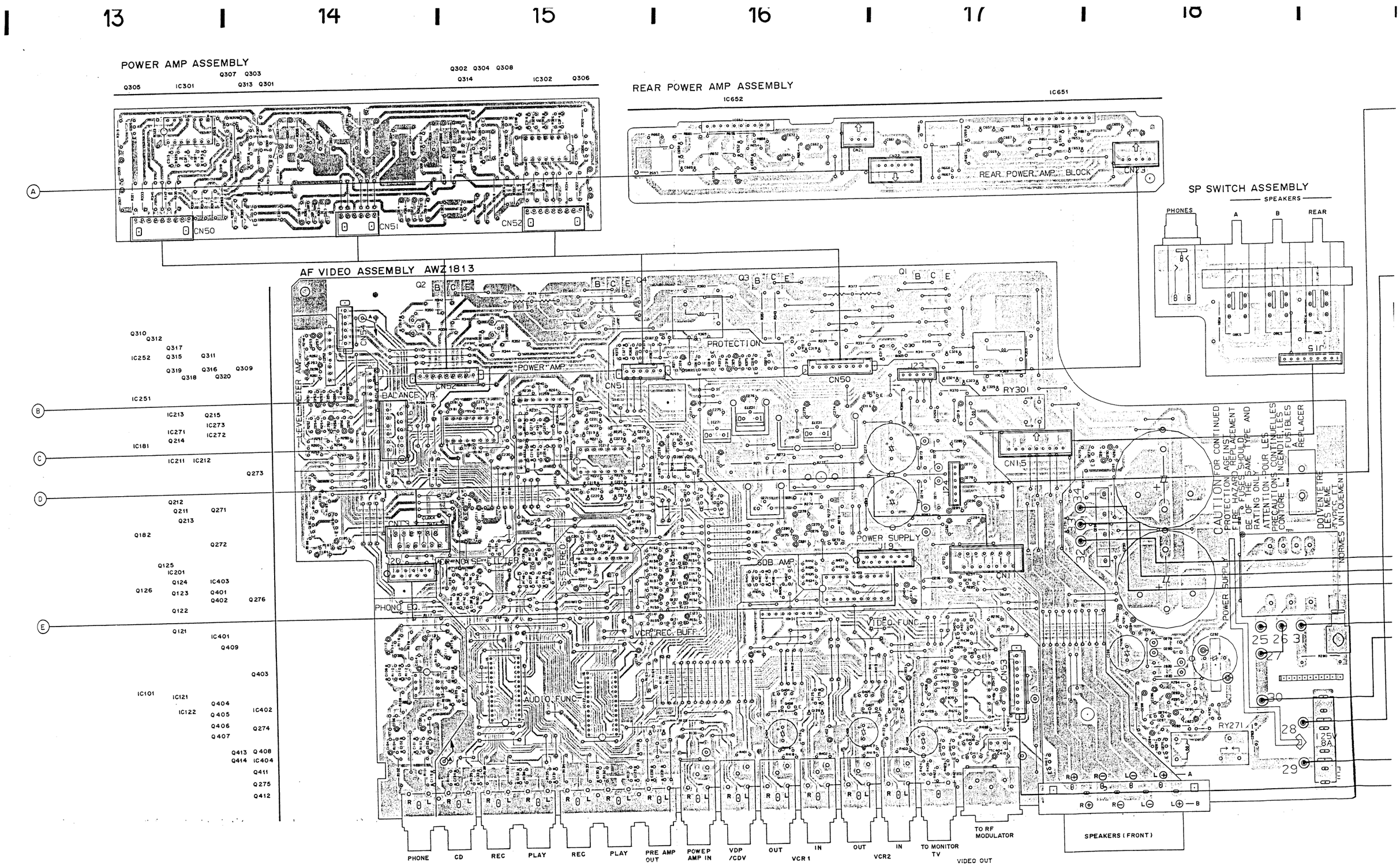
R L

REAR SPEAKERS

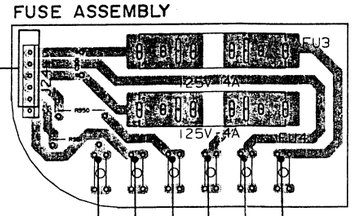
CONTROL IN/OUT

A B C D E

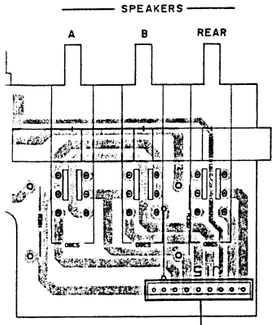
7 8 9 10 11 12


13
14
15
16
17
18
POWER AMP ASSEMBLY
Q305
IC301
Q307 Q303
Q313 Q301
Q302 Q304 Q308
Q314
IC302
Q306
CN50
CN51
CN52
REAR POWER AMP ASSEMBLY
IC652
IC651
REAR POWER AMP BLOCK
CN23
SP SWITCH ASSEMBLY
SPEAKERS
PHONES
A
B
REAR
AF VIDEO ASSEMBLY AWZ1813
Q2
Q3
Q1
PROTECTION
POWER AMP
LEVEL METER AMP
BALANCE VR
CN54
CN52
CN51
CN50
J23
RY301
CN15
J24
POWER SUPPLY
CN1
60dB AMP
S-STEREO
NOISE FILTER
PHONO EQ.
VCR REC BUFF.
VIDEO FUNC.
AUDIO FUNC.
CN53
RY271
Q310
Q312
Q317
IC252
Q315
Q311
Q319
Q316
Q309
Q318
Q320
IC251
IC213
Q215
IC273
IC271
IC272
Q214
IC181
IC211
IC212
Q273
Q212
Q211
Q271
Q213
Q182
Q272
Q125
IC201
Q124
IC403
Q126
Q123
Q401
Q402
Q276
Q122
Q121
IC401
Q409
Q403
IC101
IC121
Q404
IC122
Q405
IC402
Q406
Q274
Q407
Q413
Q408
Q414
IC404
Q411
Q275
Q412
PHONE
CD
REC
PLAY
REC
PLAY
PRE AMP OUT
POWEP AMP IN
VDP /CDV
OUT
IN
VCR 1
OUT
IN
VCR2
TO MONITOR TV
TO RF MODULATOR
VIDEO OUT
SPEAKERS (FRONT)
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH THE SAME TYPE AND RATING OF FUSES. FUSES SHOULD BE REPLACED BY QUALIFIED SERVICE PERSONNEL ONLY.
ATTENTION-POUR LES PRECAUTIONS CONTINUELLES CONTORE L'INCENDIE, LES NORMES UNTOUEMENT FUSIBLES A REPLACER
DOIVENTETRE LES MEME TYPES QUE

FUSE ASSEMBLY

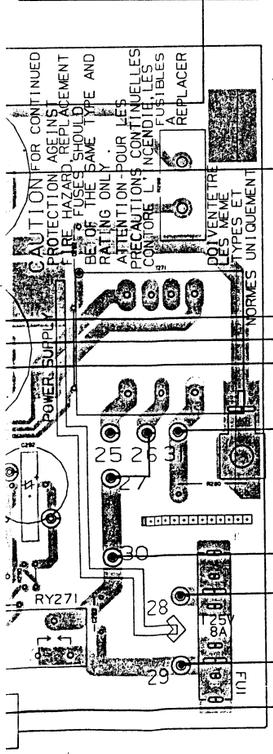


P SWITCH ASSEMBLY

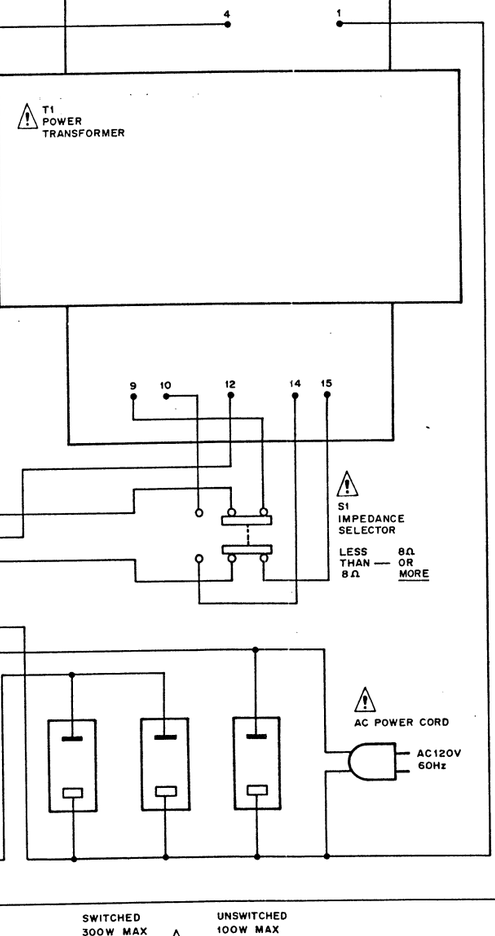


FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATING ONLY. ATTENTION POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE, LES FUSIBLES DE REMPLACEMENT DOIVENT ETRE DES MEME TYPES ET NORMES UNIQUEMENT

POWER SUPPLY



T1
POWER
TRANSFORMER



S1
IMPEDANCE
SELECTOR

LESS THAN 8Ω — 8Ω OR MORE

AC POWER CORD

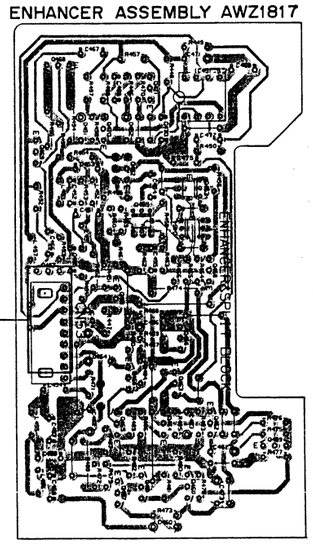
AC120V
60Hz

SWITCHED
300W MAX

UNSWITCHED
100W MAX

AC OUTLETS

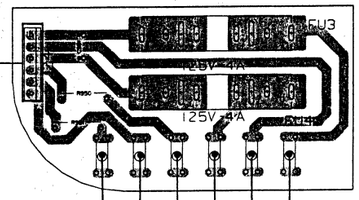
ENHANCER ASSEMBLY AWZ1817



Q468
IC451
Q471
Q470
Q469
Q452
Q453
Q455
Q454
Q467
Q458
Q451
Q456
Q466
Q462
Q464
Q465
Q459
Q460
Q461
Q457

FOR SD/G TYPE

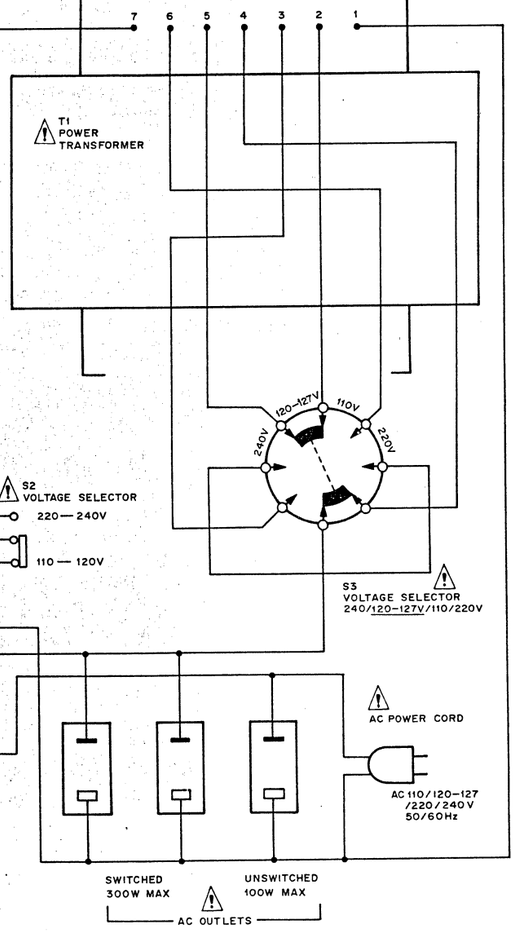
FUSE ASSEMBLY



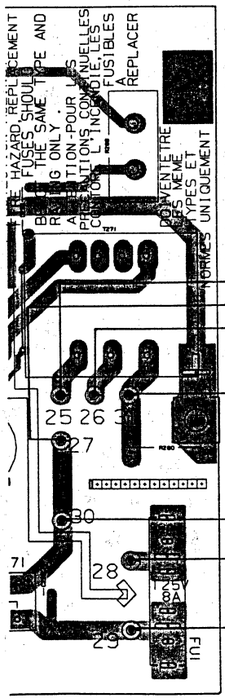
TO
AF VIDEO
ASSEMBLY
J24

FU2

T1
POWER
TRANSFORMER



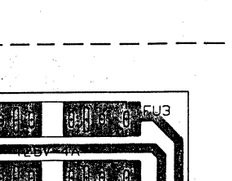
AF VIDEO
ASSEMBLY


FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATING ONLY. ATTENTION POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE, LES FUSIBLES DE REMPLACEMENT DOIVENT ETRE DES MEME TYPES ET NORMES UNIQUEMENT
25 26 27
30
71
28
29
FU1
8A
125V

S2
VOLTAGE SELECTOR

220 — 240V

110 — 120V



S3
VOLTAGE SELECTOR
240/120-127V/110/220V

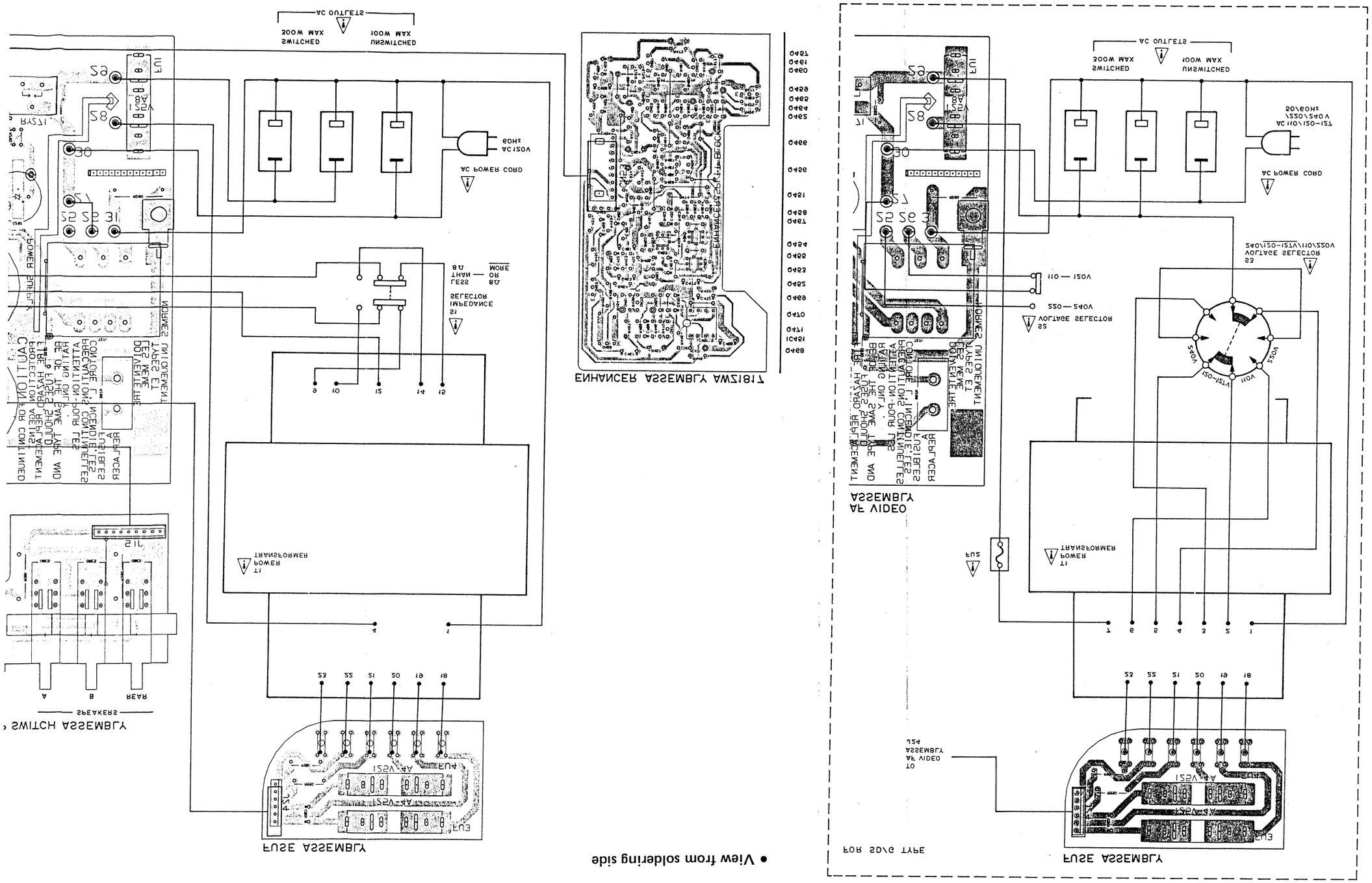
AC POWER CORD

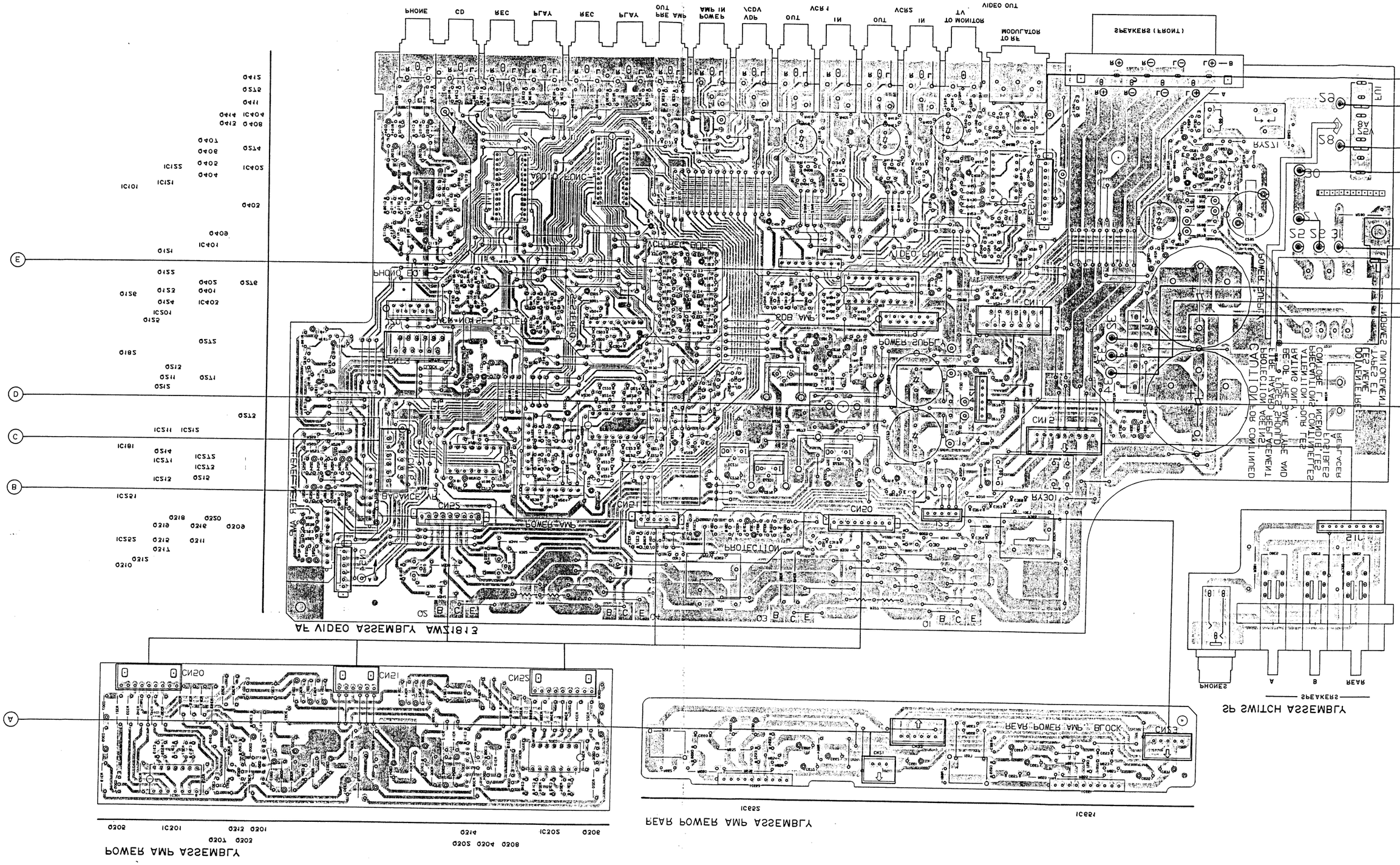
AC 110/120-127
/220/240V
50/60Hz

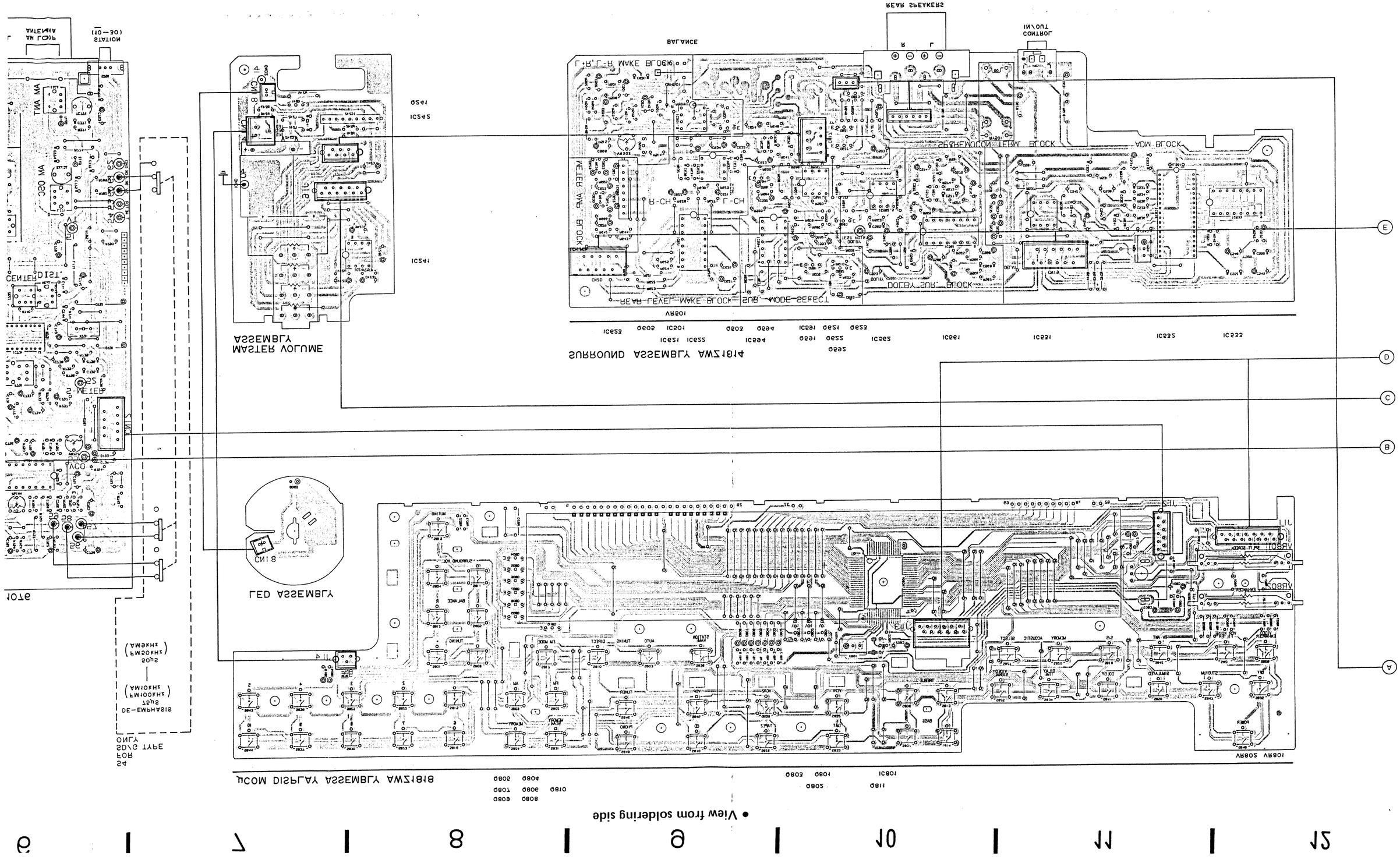
SWITCHED
300W MAX

UNSWITCHED
100W MAX

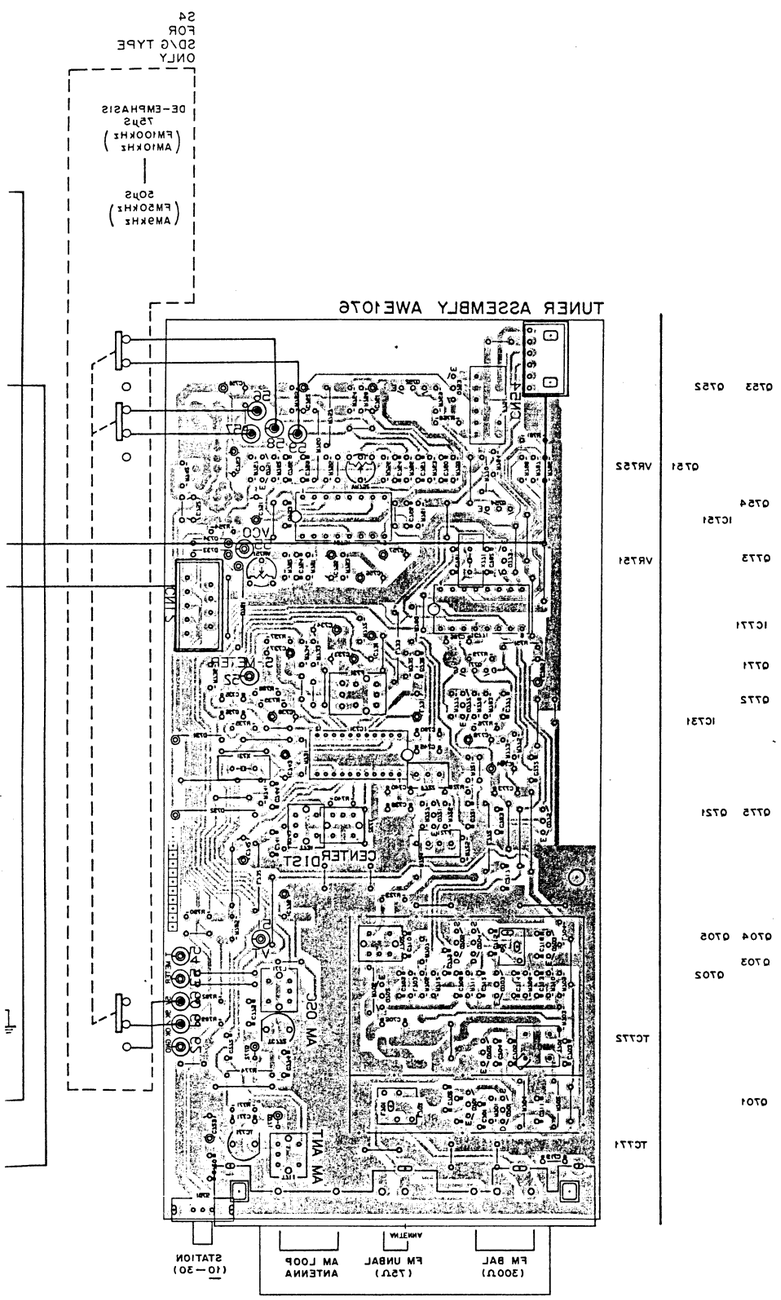
AC OUTLETS


AC OUTLETS
SWITCHED
UNSWITCHED
AC POWER CORD
TRANSFORMER
POWER
T1
FUSE
F1
VOLTAGE SELECTOR
S2
VOLTAGE SELECTOR
S5
FUSE ASSEMBLY
FOR 220 TYPE
TO AV ASSEMBLY
J5
SPEAKERS
A
B
REAR
SWITCH ASSEMBLY
ENHANCER ASSEMBLY
• View from soldering side


PHONE
CD
REC
PLAY
REC
PLAY
PRE MAIN OUT
MAIN IN
POWER
VCD
OUT
VCR 1
IN
OUT
VCR2
IN
TV TO MONITOR
VIDEO OUT
TO RF MODULATOR
SPEAKERS (FRONT)
AV VIDEO ASSEMBLY AWZ1813
POWER AMP ASSEMBLY
REAR POWER AMP ASSEMBLY
SP SWITCH ASSEMBLY
PHONES
A
B
REAR
SPEAKERS



• View from soldering side


TUNER ASSEMBLY AWE1076
S4
FOR
SDJG TYPE
ONLY
DE-EMPHASIS
75μs
(FM100KHz)
(AM10KHz)
50μs
(FM50KHz)
(AM9KHz)
CN12
VCO
METER
CENTER
DIST
VT
AM ANT
AM LOOP ANTENNA
FM UNBAL (75Ω)
FM BAL (300Ω)
STATION (10—30)
Q753
Q752
Q751
VR752
Q754
IC751
Q773
VR751
IC771
Q771
Q772
IC731
Q775
Q721
Q704
Q705
Q703
Q702
TC772
Q701
TC771

A

B

C

D

6. ELECTRICAL PARTS LIST

NOTES :

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailat
- The ⚠ mark found on some component parts indicates the impotance of the safety factor of the part. Therefore, wh replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown J=5%, and K=10%).

560 Ω	56×10^{1}	561	RD1/4PS 5 6 1 J
47k Ω	47×10^{3}	473	RD1/4PS 4 7 3 J
0.5 Ω	0R5		RN2H 0 R 5 K
1 Ω	010		RS1P 0 1 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	562×10^{1}	5621	RN1/4SR 5 6 2 1 F

Miscellaneous Parts

P. C. BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	Tuner assembly	AWE1076
	AF video assembly	AWZ1813
	Surround assembly	AWZ1814
	Enhancer assembly	AWZ1817
	μ COM display assembly	AWZ1818
	Power amp assembly	
	Rear amp assembly	
	Master volume assembly	
	SP switch assembly	
	VR LED assembly	
	Fuse assembly	

OTHERS

Mark	Symbol & Description	Part No.
⚠	Q1, Q3	2SA1302
⚠	Q2, A4	2SC3281
⚠	T1 Power transformer (AC120V)	ATS1146
⚠	AC socket 3P (AC OUTLET)	AKP-515
⚠	FU3, FU4 Fuse (4A/125V)	AEK-100
⚠	FU1 Fuse (8A/125V)	AEK-304
⚠	AC power cord	ADG1031
⚠	S1 Slide switch (SPEAKER IMPEDANCE)	AKX1004
	Remote control unit	AXD1056

Tuner Assembly (AWE1076)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC751	AN7470P
	IC731	LA1265S
	IC771	LM7001
	Q773, Q775	RN2201
	Q754	2SA933S
	Q751-Q753	2SC1740S
	Q772	2SC1740SLN
	Q703, Q721	2SC2668
	Q702	2SC2786
	Q704, Q705	2SK161
	Q701	2SK241
	Q771	2SK246
	D771, D772	SVC321C2-SP
	D731-D734, D751	1SS252
	D701-D703	1SV147

SWITCHES

Mark	Symbol & Description	Part No.
	S701 Slide switch (STATION)	ASH1027

COILS, TRANSFORMERS AND FILTERS

Mark	Symbol & Description	Part No.
	T771 AM ANT transformer	ATB-095
	L771 AM OSC coil	ATB-100
	T701 FM RF transformer	ATC-194
	L701 FM coil	ATC-1001
	L702 FM coil	ATC-1002
	L705 FM coil	ATC-1003
	T702 FM Matching transformer	ATE-063
	T732 FM detection transformer	ATE-1001
	T731 FM detection transformer	ATE-1002
	F721 FM ceramic filter	ATF-107
	F722 FM ceramic filter	ATF-119
	F751 Low-pass filter	ATF-164
	F731 AM ceramic filter	ATF1042
	L703, L704, L732, L733, L772 Inductor	LAU2R2M
	L731 Inductor	LTA472J

CAPACITORS

Mark	Symbol & Description	Part No.
	TC771, TC772 Ceramic trimmer	ACM-015
	C764	CCCSL121J50
	C708	CCDCH010C50
	C706	CCDCH020C50
	C774	CCDCH070D50
	C713, C779, C781, C782	CCDCH150J50
	C714	CCDCH330J50
	C701, C704, C705	CCDRH330J50
	C702	CCDRH390J50
	C744	CCDSL221J50
	C745	CCDSL470J50
	C716	CCDTH180J50
	C715	CCMCH080D50
	C709	CCMSL101J50
	C752	CEANP3R3M50
	C757	CEASR22M50
	C778	CEASR47M50
	C742	CEAS0R1M50
	C743	CEAS010M50
	C756	CEAS1R5M50
	C731, C737, C776	CEAS100M50
	C751	CEAS101M16
	C738	CEAS2R2M50
	C734, C755	CEAS3R3M50
	C784, C785	CEAS330M16
	C733, C761, C762	CEAS4R7M50
	C723, C758, C763	CEAS470M16
	C736	CFTXA683J50
	C721, C722, C771-C773, C777, C780, C786	CGMYX103M16
	C735	CKCYB472K50
	C717, C732, C739, C740, C765, C753	CKCYX473M25
	C703, C710-C712, C719, C720	CKDYF103Z50
	C741	CKDYF223Z50
	C783	CKDYX473M25
	C759, C760	CQMA102J50
	C766, C767	CQMA561J50
	C775	CQSA431J50
	C754	CQSA471J50

RESISTORS

Mark	Symbol & Description	Part No.
	VR752 Semi-fixed	VRTB6VS224
	VR751 Semi-fixed (VCO ADJ)	VRTB6VS472
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	X771 Crystal resonator	ASS1005
	X731 Ceramic resonator	ATF1027
	Terminal 4P (ANT)	AKA1003

AF Video Assembly (AWZ1813)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC401	CX-894
	IC403	CXD1067P
	IC181	CXD1120P-1
	IC201, IC213, IC251, IC252	M5218LF
	IC211	M5220L
	IC101	M5220P
	IC402	TC4066BP
	IC121, IC122	TC9164N
	IC212	TC9184P
	IC404	μ PC78L05
	IC271, IC272	μ PC78M12H
	IC273	μ PC78M15H
	Q215, Q409, Q412	RN1203
	Q410, Q411	RN2203
	Q214, Q315, Q401	2SA1048
	Q311, Q312	2SA968
	Q271	2SB834
	Q309, Q310	2SC2238
	Q320	2SC2240
	Q121-Q126, Q181, Q182, Q211, Q212, Q273, Q275, Q276, Q316-Q319, Q402, Q403, Q406-Q408, Q471	2SC2458
	Q413, Q414	2SC1845
	Q213, Q404, Q405	2SC2878
	Q272, Q274	2SC3377
	D286	D5SB20F
	D318	HZS9AL
	D275	RD15ESB
	D181	RD5.1ESB
	D283	RD5.1ESB1
	D276, D404	RD5.6ESB
	D253, D254, D258	RD5.6ESB3
	D285	RD6.2ESB
	D289	RD8.2ESB1
	D211, D212	RD9.1ESB
	D251, D252, D255-D257, D259, D277, D278, D284, D290, D291, D293-D296, D319, D401-D403	1SS252
	D287	1S1555
	D271-D274	10E2FD
	D279-D282, D288, D292	11E2

RELAYS

Mark	Symbol & Description	Part No.
	RY301 Relay (PROTECTION)	ASR-112
⚠	RY271 Relay (POWER)	ASR1012

COILS AND TRANSFORMERS

Mark	Symbol & Description	Part No.
	L301, L302 AF choke coil	ATH1004
⚠	T271 Power transformer (AC120V)	ATT1015

CAPACITORS

Mark	Symbol & Description	Part No.
	C293 (0.01 μ F/AC400V)	ACG1002
	C291 (0.01 μ F/AC150V)	ACG1005
	C292 (47 μ F/5.5V)	ACH1011
	C277, C283 (4300 μ F/35V)	ACH1021
	C289, C290 (8200 μ F/71V)	ACH1074
	C317-C320	CCCSL101K500
	C101, C102	CCCSL221J50
	C121, C122, C125-C134	CCMSL101J50
	C407	CCMSL330J50
	C216, C217	CCMSL680J50
	C103, C104	CEANL100M16
	C285	CEANP3R3M50
	C251-C253	CEASR47M50
	C139, C140, C214, C215, C148, C284, C411	CEAS010M50
	C226, C227, C201	CEAS100M25
	C181	CEAS100M50
	C329	CEAS101M16
	C113, C114	CEAS101M25
	C282	CEAS101M35
	C406	CEAS102M10
	C116	CEHAQ010M50
	C111, C112	CEAS2R2M50
	C281	CEAS220M16
	C409	CEAS220M50
	C272	CEAS221M35
	C273	CEHAQ470M16
	C123, C124, C141-C144, C146, C147, C182-C185, C202, C213, C228, C230, C410	CEAS4R7M50
	C274	CEHAQ010M50
	C211, C212, C271, C278, C279, C286, C287, C401-C403, C408	CEAS470M16
	C275, C280	CEAS470M25
	C284	CEAS470M50
	C288	CEAS471M25
	C105, C106, C328, C404, C405	CEAS471M6
	C276	CEHAQ101M35
	C323-C326	CFTXA104J50
	C137, C138, C220, C221, C224, C225	CFTXA153J50
	C107, C108	CFTXA243J50
	C204	CQMA332J50
	C203	CFTXA333J50
	C109, C110, C218, C219	CFTXA823J50
	C115	CKCYX473M25
	C327	CKDYX473M25
	C231, C232	CQMA222J50
	C222, C223	CQMA272J50
	C135, C136	CQMA682J50

RESISTORS

Mark	Symbol & Description	Part No.
	R377, R378 (0.33 Ω, 5W×2)	ACN-139
	R280 (2.2M Ω, ½W)	ACN-209
	R341-R344	RFA¼PS4R7J
	R359, R360, R365, R366	RS1LMF100J
	R271	RS3LMF330J
	R288, R272	RT5PH□□□K
	R117, R118, R273, R276, R277, R283, R284, R289, R297, R337-R340, R349-R352, R370	RD¼PMF□□□
	R296, R414, R415, R421	RD¼PM□□□J
	Other resistors	RD⅛PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Pin jack 4P	AKB1007
	Pin jack 6P	AKB1008
	Pin jack 3P	AKB1021
	Pin jack 4P	AKB1033
	Pin jack 2P	AKB1060
	Pin jack 3P	AKB1061
	Terminal 8P (FRONT SPEAKERS)	AKE-111
	DIN socket 5P (VIDEO OUT)	AKP-081
	Screw	ABA1012

Surround Assembly (AWZ1814)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC621	CXD1120P-1
	IC561	LA2730
	IC533	M5K4164AP
	IC532	M50199P
	IC501	M5201P
	IC623	M5218LF
	IC562, IC591	M5218PF
	IC622	M5220P
	IC531	M5233P
	IC594	TC4066BP
	Q503, Q591	RN1203
	Q305, Q592, Q623	2SA1048
	Q593, Q594	2SC2458
	Q621, Q622	2SC2878
	D593	HZS6AL
	D591, D592	RD10ESB1
	D627	RD5.1ESB
	D629, D630	RD5.6ESB3
	D531-D535, D594, D621-D624, D628, D631	1SS252

RELAYS

Mark	Symbol & Description	Part No.
	RY501 Relay (REAR SP ON/OFF)	ASR1005

COILS

Mark	Symbol & Description	Part No.
	L531 Inductor	LAU2R2M

CAPACITORS

Mark	Symbol & Description	Part No.
	C565	CCMSL470J50
	C538	CEANP010M50
	C542	CEANP4R7M35
	C571	CEASR33M50
	C628, C629	CEASR47M50
	C501, C502, C505, C553, C561, C562, C564, C566, C567, C574, C591	CEAS010M50
	C531, C568, C594, C595, C621–C625	CEAS100M50
	C534, C549, C576	CEAS101M10
	C503, C504	CEAS101M25
	C575, C631	CEAS220M16
	C633, C634	CEAS221M10
	C548, C592, C593	CEAS470M10
	C545	CEAS470M16
	C544	CFTXA103J50
	C539, C543, C572	CFTXA104J50
	C635, C636	CFTXA123J50
	C570, C573	CFTXA333J50
	C551, C552	CFTXA823J50
	C533, C550	CGMYX103M16
	C630	CKCYX103M25
	C563	CKMYB471K50
	C577, C637, C638	CQMA472J50
	C532, C536, C540	CQMA562J50
	C569	CQMA682J50
	C537, C541	CQSA561J50

RESISTORS

Mark	Symbol & Description	Part No.
	VR501 Variable resistor	ACS1024
	VR502 Semi-fixed	VRTB6VS223
	R619	RD¼PMF□□□J
	Other resistors	RD⅛PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	X531 Ceramic resonator	ASS1016
	Terminal 4P (REAR SPEAKERS)	AKE1012
	Mini jack 2P (CONTROL IN/OUT)	AKN1006

Enhancer Assembly (AWZ1817)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC451	M51848P
	Q467, Q469	2SA1048
	Q451, Q452, Q456–Q462, Q464–Q466, Q468, Q470	2SC2458
	Q463	2SC2878
	Q453–Q455	2SC3064
	D451, D452	1SS252

COILS

Mark	Symbol & Description	Part No.
	L454	LAU100K
	L451, L457	LAU101K
	L453	LAU180K
	L452	LAU2R2M
	L456	LAU220K
	L455	LAU270K

CAPACITORS

Mark	Symbol & Description	Part No.
	C453	CCCCH101J50
	C475	CCDSL151J50
	C451	CCMCH180J50
	C457–C459, C467	CCMCH220J50
	C454	CCMSL080D50
	C468	CCMSL101J50
	C465	CCMSL470J50
	C472	CCMSL680J50
	C456	CEAS100M25
	C462, C464	CEAS100M50
	C460, C461, C463, C471, C473, C474	CEAS470M16
	C466	CFTXA104J50
	C455	CGMYX103M16
	C469	CKCYX103M25
	C452	CQSA102J50
	C470	CQSA681J50

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD⅛PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Socket 9P	AKP–046

μ COM Display Assembly (AWZ1818)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC801	PDG020
	Q811	RN1203
	Q801–Q810	2SC2458
	D801–D812	1SS252

SWITCHES

Mark	Symbol & Description	Part No.
	S801–S850 Tact switch (TUNING+, FM, AUTO/MANUAL, REAR LEVEL+, BALANCE L, TREBLE+, BASS+, TUNING–, AM, DIRECT ACCESS, REAR LEVEL–, BALANCE R, TREBLE–, BASS–, SC1, SC6, FM MODE, S/S, MUTING, A-MEMORY, VCR NOISE FILTER, SC2, SC7, MEMORY, VIDEO SIGNAL SELECTOR, TAPE2/DAT2 MONITOR, A-SELECT, V-ENHANCER, SC3, SC8, MEMORY SCAN, VCR1, TAPE1/DAT1, DELAY TIME, SURR OFF, SC4, SC9, S-NAME, VCR2, CD, DOLBY SURR, TV ANT, SC5, SC10, VDP/CDV, TUNER, STADIUM, POWER, PHONO, S-SURROUND)	ASG–711

COILS

Mark	Symbol & Description	Part No.
	L801	LAU101K

CAPACITORS

Mark	Symbol & Description	Part No.
	C803	CEJAR47M50
	C802	CEJA0R1M50
	C801	CEJA101M6

RESISTORS

Mark	Symbol & Description	Part No.
	VR802 Variable resistor (ENHANCER)	ACU1029
	VR801 Variable resistor (SPLIT SCREEN)	ACU1028
	R820	RD¼PM□□□J
	Other resistors	RD⅛PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	V801 Fluorescent tube	AAV1055
	X801 Ceramic resonator	ASS1022
	Remote sensor unit	AXX1005

Power Amp Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC301, IC302	PA0016
	Q305, Q306	2SA1145
	Q301, Q302	2SA979
	Q303, Q304, Q313, Q314	2SC2240
	Q307, Q308	2SC2705
	D317	RD24ESB
	D301–D316, D318, D319	1SS252

CAPACITORS

Mark	Symbol & Description	Part No.
	C311, C312	CCCSL151J50
	C301, C302	CCCSL221J50
	C313–C316	CCMSL680J50
	C321, C322	CEANP2R2M100
	C303, C304	CEAS2R2M50
	C317, C318	CCCSL020C500
	C330	CEAS220M50
	C307, C308	CEXA471M16
	C305, C306	CKCYB331K50
	C309, C310	CMA270J500

RESISTORS

Mark	Symbol & Description	Part No.
	R315–R318, R321, R322, R331, R332	RFA¼PS□□□J
	R376	RS2LMF222J
	R305, R306, R311–R314	RDR¼PM□□□J
	R333–R336, R345–R348, R353–R356	RD¼PMF□□□J
	R301–R304, R307–R310, R319, R320, R323, R324, R329, R330, R392, R393	RD¼PM□□□J
	Other resistors	RD⅛PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Socket 9P	AKP–046

Rear Power Amp Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
⚠	IC651, IC652	μ PC1188H

COILS

Mark	Symbol & Description	Part No.
	L651, L652 AF choke coil	ATH1011

CAPACITORS

Mark	Symbol & Description	Part No.
	C651, C652	CCMSL220J50
	C667, C668, C671, C672	CEAS100M50
	C661, C662	CEAS2R2M50
	C655, C656	CEAS220M25
	C669, C670	CEAS330M50
	C657–C660	CFTXA223J50
	C653, C654	CKMYB471K50

RESISTORS

Mark	Symbol & Description	Part No.
⚠	R659, R660	RD¼PMF100J
	Other resistors	RD⅛PM□□□J

Master Volume Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC241	M5220P
	IC242	TA7291S
	Q241	RN2201

COILS

Mark	Symbol & Description	Part No.
	L241, L242	LAU560K

CAPACITORS

Mark	Symbol & Description	Part No.
	C245, C246	CEAS100M25
	C243, C244	CEAS4R7M50
	C247	CEAS470M25
	C241, C242	CKDYX473M25

RESISTORS

Mark	Symbol & Description	Part No.
	VR241 Variable resistor (MASTER VOLUME)	ACX1015
	R245	RD¼PM□□□J
	Other resistors	RD⅛PM□□□J

SP Switch Assembly

SWITCHS

Mark	Symbol & Description	Part No.
	S380 Push switch (SPEAKERS A, B, REAR)	SUL6LXXXS

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RS2LMF□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Jack (PHONES)	AKN1002

VR LED Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	D900	AEL1053

OTHERS

Mark	Symbol & Description	Part No.
	Terminal board	AKF1006

Fuse Assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C901 (0.01 μ F/AC150V)	ACG1005

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD¼PMF□□□J

7. ADJUSTMENTS

7.1 TUNER SECTION

FM Tuner Section

- Connect the FM signal generator (FM SG) to the FM ANTENNA 300Ω terminal through a 300Ω dummy antenna.
- Set the AUTO/MANUAL switch to the MANUAL position and the FUNCTION switch to the FM.

FM MONO ADJUSTMENT

Step	FM SG (1 kHz±75 kHz dev.)		Frequency display	Adjustment point	Adjustment procedure
	Frequency	Level			
1	No signal		87.5 MHz	—	Check pin 51 (3.4±1.5V) of tuner assembly.
2			108.0 MHz		Check pin 51 ($8.7^{+2.5V}_{-2.0V}$) of tuner assembly.
3	98 MHz	20~30 dB	98 MHz	T701, L702 T702	Set the output from pin 52 of tuner assembly to maximum level.
4	98 MHz	60 dB	98 MHz	T732	Adjust voltage across pins 53 and 54 of tuner assembly to T meter center. (±10 mV)
5	98 MHz	60 dB	98 MHz	T731	Minimize distortion.
6	Repeat steps 4 and 5 until both specification ratings are satisfied.				

FM MPX ADJUSTMENT

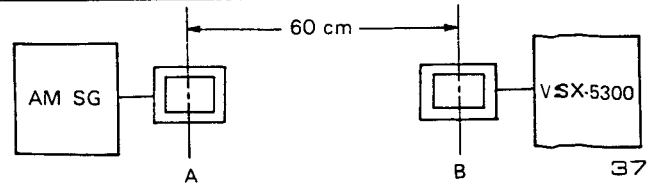
7	98 MHz	80 dB	98 MHz	VR751	Adjust the frequency at pin 55 of tuner assembly to 75.8 kHz (±100 Hz)
	No modulation				
8	98 MHz	60 dB	98 MHz	T702	Minimize distortion in both left and right channel outputs (adjust T702 to within ±90°)
	Stereo modulation*				
9	98 MHz	60 dB	98 MHz	VR752	Maximize separation.
	Stereo modulation*				
10	98 MHz	8~33 dB	98 MHz	—	Confirm that TUNER IND and STEREO IND become lit.
	Stereo modulation*				
* Stereo modulation: 1 kHz L (or R) ±68.25 kHz dev. Pilot 19 kHz±6.75 kHz dev.					

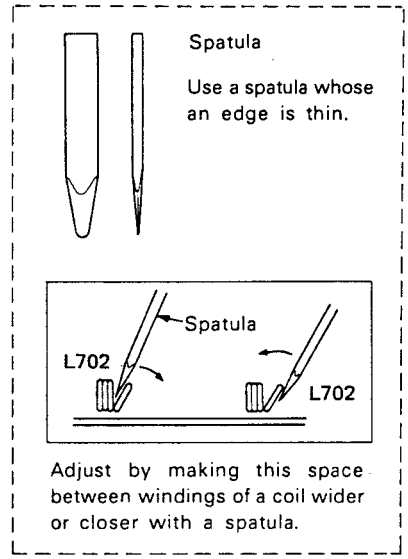
AM (MW) Tuner Section

- Connect loop antenna to the AM signal generator (AM SG), and connect the Loop antenna (of the set) to AM ANTENNA terminal.
- Set the FUNCTION switch to the AM (MW)

Step	AM SG (400Hz, 30% MOD)		Frequency display	Adjustment pint	Adjustment procedure
	Frequency	Level			
1	No signal		530 kHz	L771	Set pin 51 of tuner assembly to 1.2V (±0.05V)
2			1700 kHz	TC772	Set pin 51 tuner assembly to 10.0V (±0.1V)
3	Repeat steps 1 and 2 until both specification ratings are satisfied.				
4	600 kHz	40 dB	600 kHz	T771	Set the output from pin 52 of tuner assembly to maximum level.
5	1400 kHz	40 dB	1400 kHz	TC771	
6	Repeat steps 4 and 5 until both specification ratings are satisfied.				
7	1000 kHz	60 dB	1000 kHz	Confirm that TUNER IND becomes lit.	

- The distance between AM SG side loop antenna A and the receiver side (VSX-5300) loop antenna B, that is, from the center of A side loop antenna to that of B side loop antenna should be 60 cm.




Spatula
Use a spatula whose an edge is thin.
Spatula
L702
L702
Adjust by making this space between windings of a coil wider or closer with a spatula.

Tuner Assembly (AWE1076)

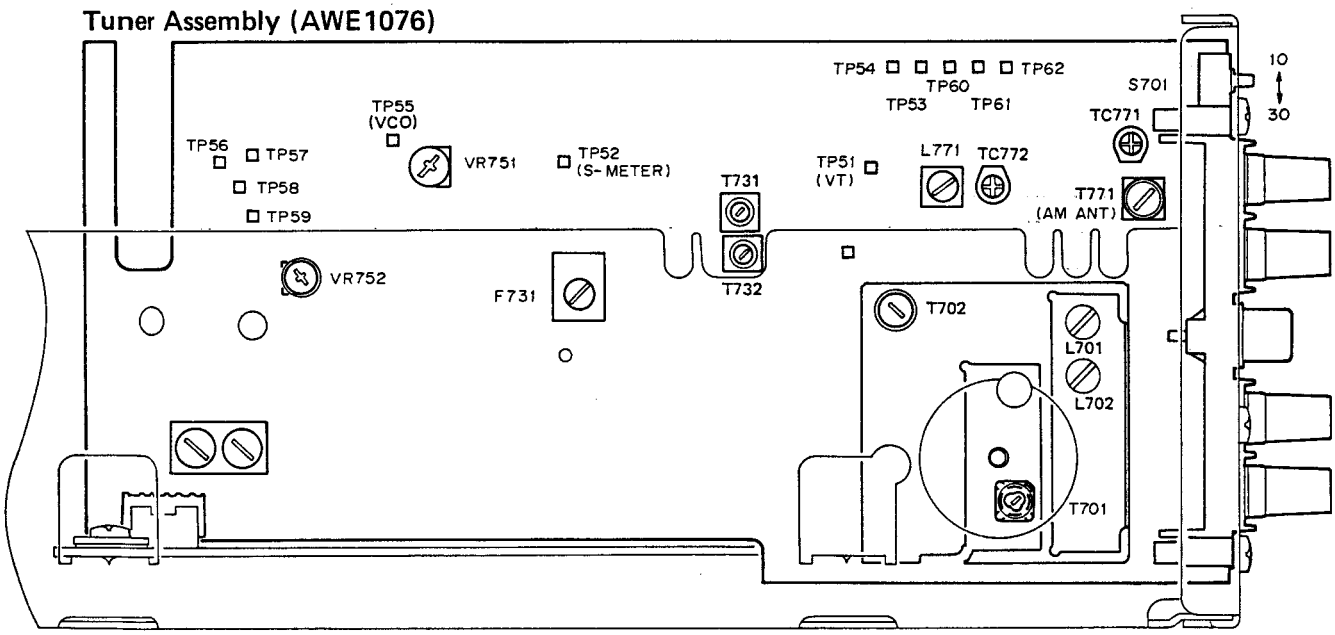


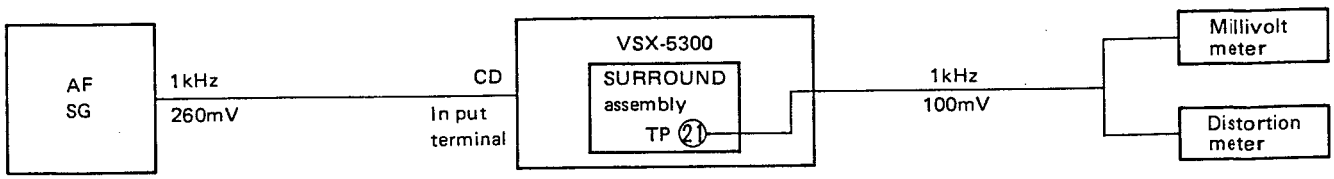
Fig 7-1 Adjustment points

7.2 SURROUND AMP SECTION

• SURROUND LEVEL ADJUSTMENT

Preparation

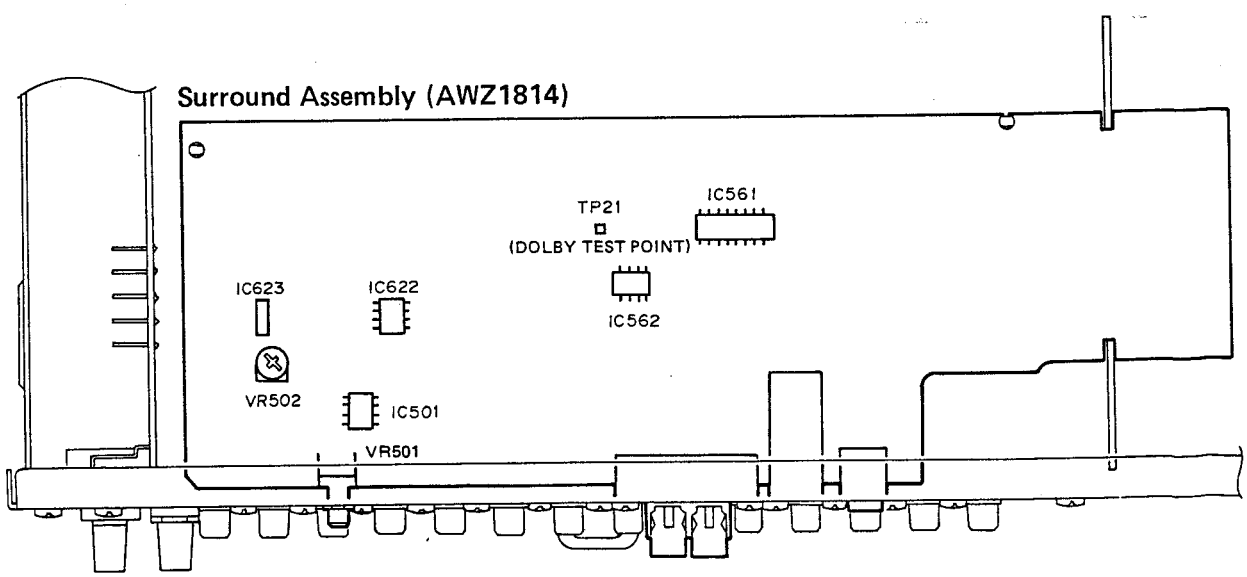
1) Adjust the SURROUND BALANCE VR (VR501) on the rear side to the center clicking position.
2) Set the SURROUND MODE to the DD SURROUND (DOLBY).
3) Input sine wave signal of 1kHz, 260mV to the CD input. Lch (or R ch) only.
(Be sure that the small signal assembly is operationg normally.)



Connection diagram

Adjusting method

1) Adjust with VR502 (LEVEL) so that the output of TP pin 21 of the SURROUND assembly becomes 100mV ±5mV.



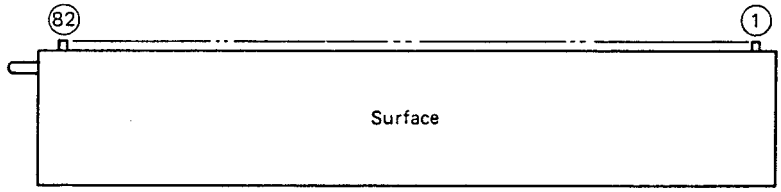
8. IC DESCRIPTIONS

• PDG020

Pin No.	Pin Name	I/O	Conditions	Pin State	Remarks	
1	S4	O	Power ON or STAND-BY	⎍⎍	Control of FL indicator segments (S4 to S21)	S4
|	|					|
4	S7					S7
5	S8					S11
6	S9					S8
7	S10					S21
|	|					|
16	S19					S12
17	S20					S10
18	S21					S9
19	T9	O	Power ON or STAND-BY	⎍⎍	Control of FL indicator grid (T0 to T9)	1G
|	|					|
28	T0					10G
29	INT	I	GND		Not used	
30	X TAL	–	Ceramic oscillator (4.19MHz) connection			
31	EX TAL	I				
32	RST	I	Power OFF to ON	L	RESET	
33	NC	–	(Open)	–	Not used	
34	V_{DD}		Power ON or STAND-BY	5V	Pin for application of 5V power	
35	AD0	I	Analog voltage input for driving level meter		Level indicator control	Front Lch
36	AD1					Front Rch
37	AD2					Rear Lch
38	AD3					Rear Rch
39	AD4					Center
40	B1	I	During FM stereo reception	L		
41	B2	I	When tuner section is receiving in auto tuning mode	⎍	Reception at frequency when goes to "L" during searching in auto tuning mode.	
42	B3	I	Memory number 30 stations	H	Number of memory channels for tuner section is set to 30 or 10 stations by S701.	
			Memory number 10 stations	L		
43	NC	–	(Open)	–	Not used	
44	SC	O	Power ON or STAND-BY	⎍⎍	CLOCK output	
45	SO	O		⎍⎍	DATA output	
46	SI	I	GND	L	SURROUND can be turned ON/OFF	
			+5V	H	SURROUND can not be turned ON/OFF	
47	A0	O	During control of IC403 (CXD1067P)	⎍	STB output for IC403 (CXD1067P)	
48	A1	I	Grounded by R790 (47k Ω)	L	"H" ···· J MODEL	
49	A2	I	AM····9KHz, FM····50KHz	H	Selects steps for reception frequency of tuner section	
			AM····10KHz, FM····100KHz	L		
50	A3	O	SURROUND···· "OFF"	H	When SURROUND not used	

Pin No.	Pin Name	I/O	Conditions	Pin State	Remarks
51 | 54	F0 | F3	I	During control key operation	⎍⎍	Key matrix input
55 | 58	E0 | E3				
59	PY0	O	Other Functions except TUNER	H	No muting during reception of frequencies with no broadcast station during FM
			During auto tuning	H	
			Pause between switching BAND, STATION, etc.	⎍	
60	PWM	O	(Open)		Not used
61	WP	I	AC pulse (50/60Hz) input		Back-up state when no AC pulse input
62	RMC	I	During remote control reception	⎍⎍	Input terminal for remote control signal
63	D0	O	When data transfer completed	⎍	STB output For IC122 (TC9164N) and IC212 (TC9184)
64	D1	O	When data transfer completed	⎍	STB output For IC121 (TC9164N)
65	D2	O	During data transfer	H	STB output For IC771 (LM7001)
66	D3	O	When data transfer completed	⎍	STB output For IC181 (CXD1120P-1) and IC621 (CXD1120P-1)
67	C0	O	CONTROL IC / VOL. motor mode		IC801 (PDG020): 67Pin / 68Pin; IC242 (TA7291S): 3Pin / 7Pin
			Stop	→	L / L / OPEN / OPEN
68	C1		VOLUME UP	→	H / L / L / H
			VOLUME DOWN	→	L / H / H / L
			Brake	→	H / H / L / L
69	C2		Volume indicator is lighting	L	D900 (VOL. IND) is lighting
70	C3		Power ON	H	Relay (RY271) ON
71	Vss		GND	–	
72	TX	–	(Open)	–	Not used
73	NC	–	(Open)	–	Not used
74	TEX	I	5V		Not used
75	V_{REF}		Back-up		Application of back-up power (5V)
76	V_{FDP}		Power ON	-30V	Power supply for FL indicator contro
77 | 80	S0 | S3	O	Power ON or STAND-BY	⎍⎍	Control of FL indicator segments (S0 to S3)

Matrix Table of Indicator



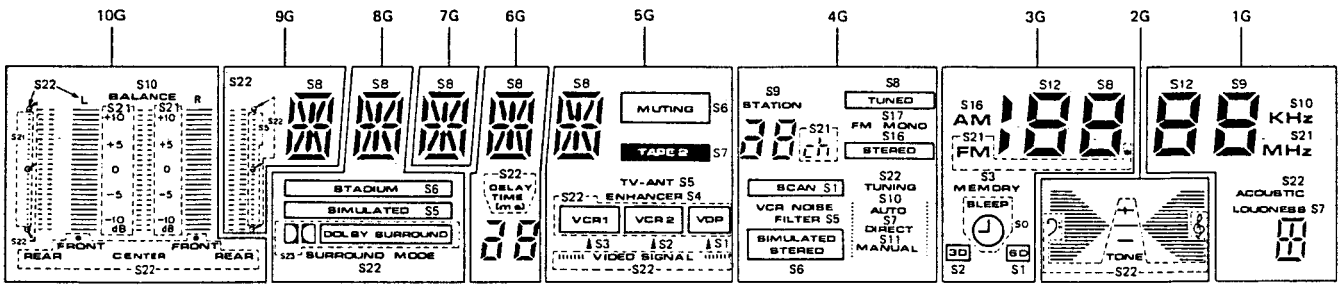
Pin Connection

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	Fd	Fd	NP	NP	NP	NP	NP	NP	NP	NP	S23	S0	S1	S2	S3	S4	S5	S6	S7	S11	S22	S8	S21	S20	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	NP	NP	F1	F1

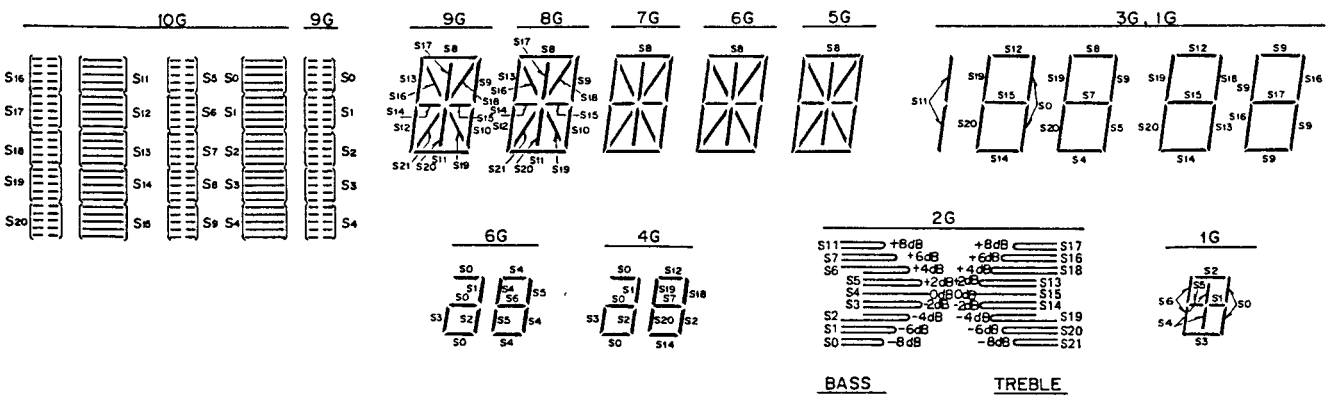
PIN NO.	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51
CONNECTION	F2	F2	NP	NP	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

NOTE: Fd=Filament damper

Grid Assignment



Segment Designation



9. FOR VSX-5300/SD/G AND VSX-5300S/KUC TYPES

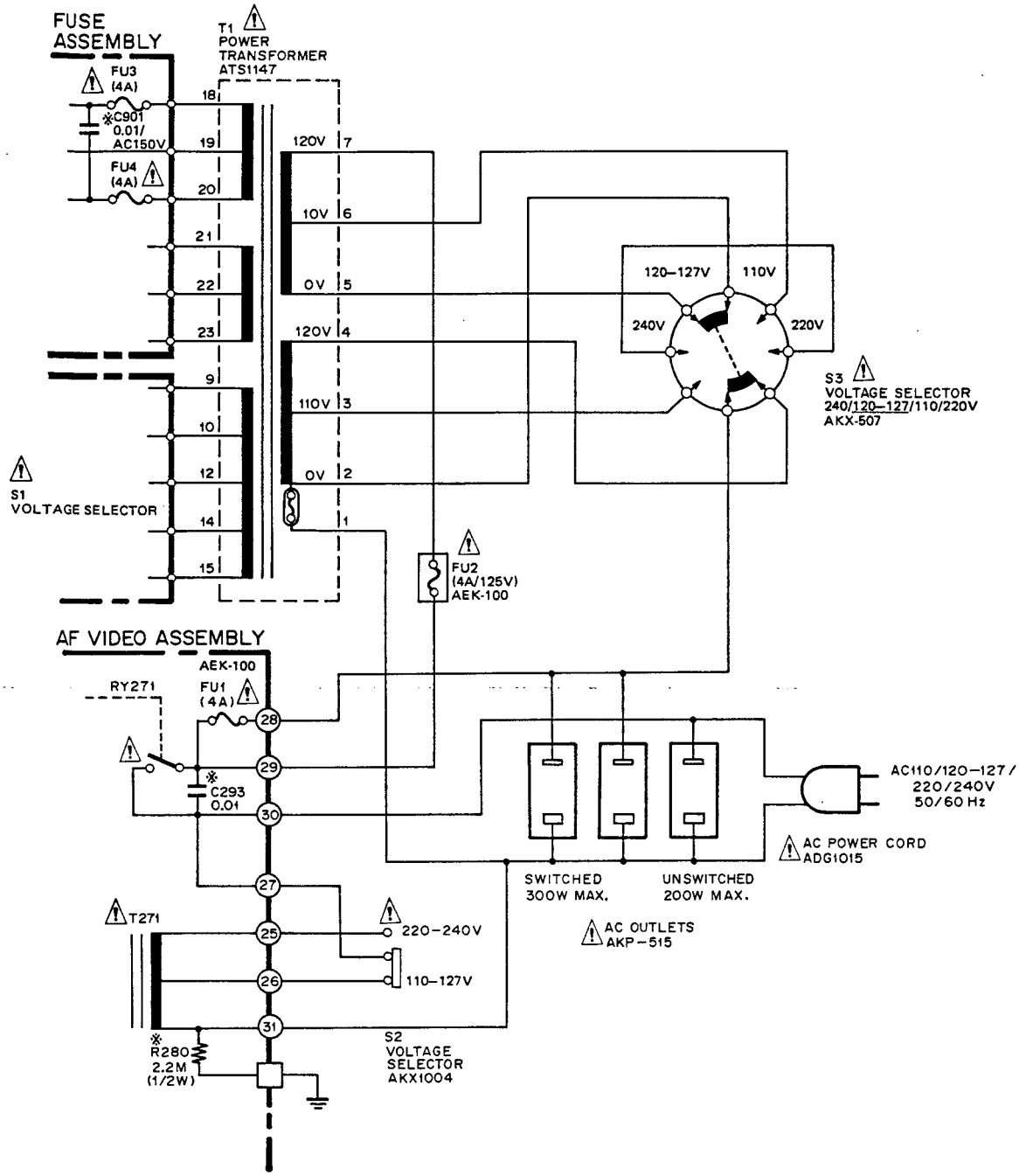
NOTES :

- Parts without part number cannot be supplied.
- The ⚠ mark found on some component parts indicates the impotance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

The VSX-5300/SD/G and VSX-5300S/KUC types are the same as the VSX-5300/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSX-5300 KUC type	VSX-5300 SD/G type	VSX-5300S KUC type	
⚠	AC power cord	ADG1031	ADG1015	ADG1031	
⚠	FU1 Fuse (8A/125V)	AEK-304	.....	AEK-304	
⚠	FU1, FU2 Fuse (4A/125V)	.....	AEK-100	.....	
⚠	S2 Slide switch Voltage selector (110-127/220-240V)	.....	AKX1004	.....	
⚠	S3 Voltage selector (110/120-127/220/240V)	.....	AKX-507	.....	
	S4 Slide switch (Channel step/FM De-emphasis)	.....	ASH-004	.....	
⚠	T1 Power transformer	ATS1146	ATS1147	ATS1146	
⚠	Fuse holder	.....	AKR-032	.....	
	Screw	.....	VMZ26P040FZK	.....	
	Packing case	AHD1441	AHD1441	AHD1448	
	Remote control unit	AXD1056	AXD1056	AXD1055	
	Operating instructions (English)	ARB1113	ARB1113	ARB1135	
	Operating instructions (Spanish)	.....	ARC1089	.....	
	Template	.....	.....	AAK1439	

SCHEMATIC DIAGRAM OF VSX-5300/SD/G TYPE



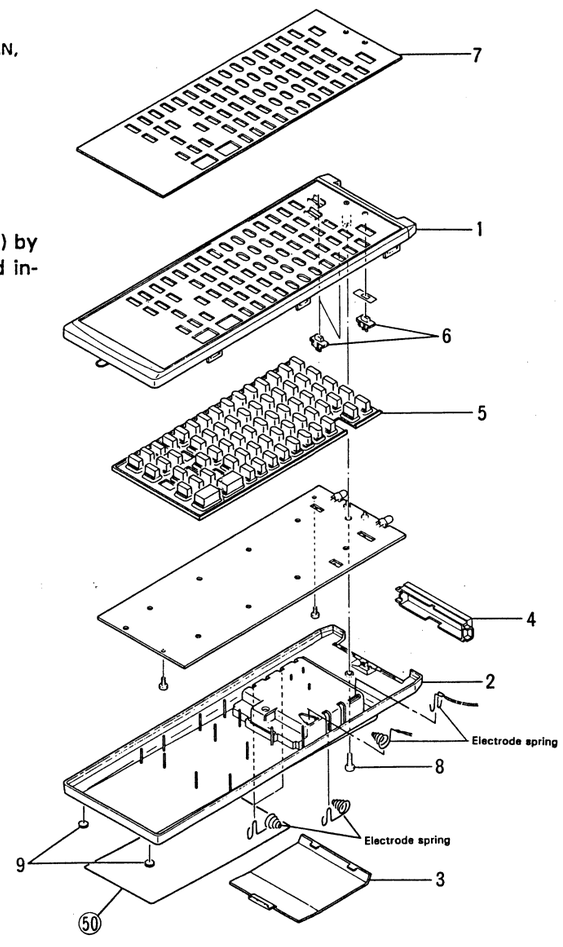
10. PROGRAMABLE REMOTE CONTROL UNIT FOR VSX-5300S/KUC TYPE (AXD1055)

10.1 EXPLODED VIEW AND PARTS LIST

Parts List

Mark	No.	Parts No.	Description
	1	AZH1033	Case (A)
	2	AZH1034	Case (B)
	3	AZH1035	Case (C)
	4	AZN1400	Filter
	5	AZA1086	Rubber switch
	6	AZS1042	Knob (AUDIO/VIDEO /AUX, USE/LEARN, DAT/TAPE)
	7	AZA1087	Name plate
	8	AZB1124	Screw
	9	AZN1401	Foot
	50		Rear name plate

※When replacing the case No.2 (B) (AZH1034) by a new one, remove all electrode springs and install them into the new case (B).



10.2 ELECTRICAL PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	*56 × 10¹*	*561*	*RD1/4PS 5 6 1 J*
47kΩ	*47 × 10³*	*473*	*RD1/4PS 4 7 3 J*
0.5Ω	*0R5*		*RN2H 0 R 5 K*
1Ω	*010*		*RS1P 0 1 0 K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	*562 × 10¹*	*5621*	*RN1/4SR 5 6 2 1 F*

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC01	PD5068-A
	IC02	AZC1045
	IC03	AZC1046
	IC04	AZC1047
	IC05	AZC1048
	Q01, Q02	AZC1050
	Q03, Q04	AZC1051
	Q05	AZC1052
	D01, D02, D07-D14	AZC1056
	D03-D06	AZC1049
	PHD01	AZC1055
	LED01, LED02	AZC1054
	IED02, IED02	AZC1053

SWITCH

Mark	Symbol & Description	Part No.
	S01 Slide switch (AUDIO/VIDEO/AUX)	AZC1079
	S02, S03 Slide switch (USE/LEARN, DAT/TAPE)	AZC1080
	S04 Tact switch (RESET)	AZC1081

CAPACITORS

Mark	Symbol & Description	Part No.
	C01 (200P)	AZC1058
	C02 (33P)	AZC1059
	C03, C04 (0.001μF)	AZC1062
	C05, C06 (20P)	AZC1060
	C07 Electrolytic capacitor (4.7/6V)	CEAS4R7M6
	C08 (0.01)	AZC1061
	C09 Electrolytic capacitor (1000/6V)	CEAS102M6
	C10 Electrolytic capacitor (100/6V)	CEAS101M6
	C11 (0.01)	AZC1063

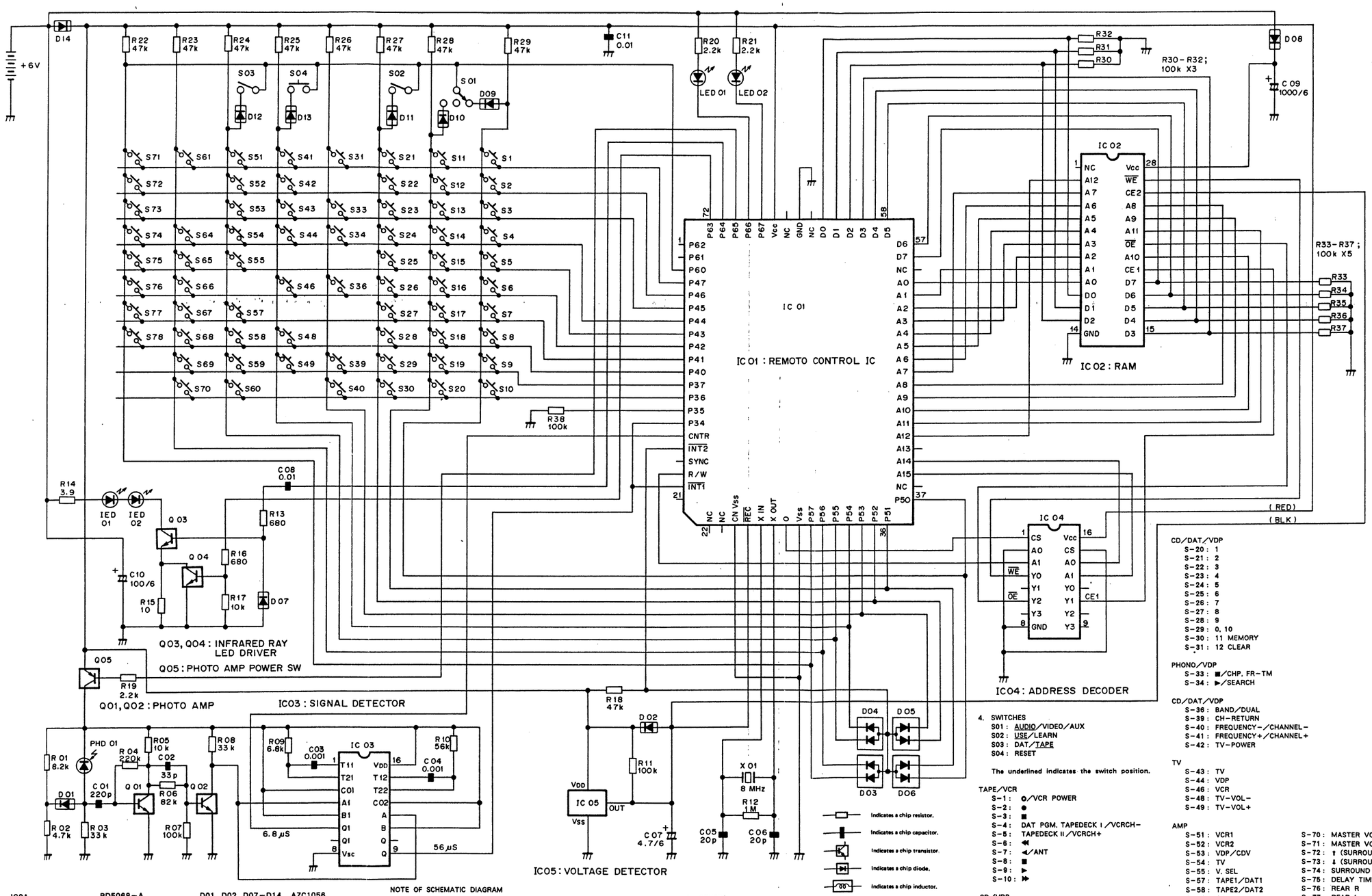
RESISTORS

Mark	Symbol & Description	Part No.
	R01 (8.2K)	AZC1064
	R02 (4.7K)	AZC1065
	R03, R08 (33K)	AZC1066
	R04 (220K)	AZC1067
	R05, R17, R39 (10K)	AZC1068
	R06 (82K)	AZC1069
	R07, R11, R30-R38 (100K)	AZC1073
	R09 (6.8K)	AZC1070
	R10 (56K)	AZC1071
	R12 (1M)	AZC1072
	R13, R16 (680Ω)	AZC1075
	R14 (3.9Ω)	AZC1078
	R15 (10Ω)	AZC1076
	R18, R22-R29 (47K)	AZC1077
	R19-R21 (2.2K)	AZC1074

OTHERS

Mark	Symbol & Description	Part No.
	X1 Resonator (8MHz)	AZC1057

10.3 SCHEMATIC DIAGRAM



IC01	PD5068-A	D01, D02, D07-D14	AZC1056
IC02	AZC1045	D03-D06	AZC1049
IC03	AZC1046	PHD01	AZC1055
IC04	AZC1047	LED01, LED02	AZC1054
IC05	AZC1048		
		S01	AZC1079
Q01, Q02	AZC1050	S02, S03	AZC1080
Q03, Q04	AZC1051	S04	AZC1081
Q05	AZC1052		

NOTE OF SCHEMATIC DIAGRAM

1. RESISTORS :
   Indicated in Ω, 1/6W, 1/8W, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.
2. CAPACITORS :
   Indicated in capacity (μ F) /voltage (V) unless otherwise noted p ; pF.
   Indication without voltage is 50V except electolytic capacitor.
3. OTHERS
   ➡ : Signal route.
   ◎ : Adjusting point.
   The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
   ※ marked capacitors and resistors have parts numbers.

   This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. SWITCHES
   S01 : AUDIO/VIDEO/AUX
   S02 : USE/LEARN
   S03 : DAT/TAPE
   S04 : RESET

   The underlined indicates the switch position.

TAPE/VCR
- S-1 : ⏻/VCR POWER
- S-2 : ●
- S-3 : ■
- S-4 : DAT PGM. TAPEDECK I /VCRCH−
- S-5 : TAPEDECK II /VCRCH+
- S-6 : ⏮
- S-7 : ⏏/ANT
- S-8 : ■
- S-9 : ▶
- S-10 : ⏭

CD/VDP
- S-11 : DISCSEL/DISPLAY
- S-12 : ■
- S-13 : ⏮
- S-14 : ⏭
- S-15 : PGM
- S-16 : ⏪
- S-17 : ■
- S-18 : ▶
- S-19 : ⏩

CD/DAT/VDP
- S-20 : 1
- S-21 : 2
- S-22 : 3
- S-23 : 4
- S-24 : 5
- S-25 : 6
- S-26 : 7
- S-27 : 8
- S-28 : 9
- S-29 : 0, 10
- S-30 : 11 MEMORY
- S-31 : 12 CLEAR

PHONO/VDP
- S-33 : ■/CHP. FR−TM
- S-34 : ▶/SEARCH

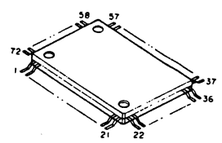
CD/DAT/VDP
- S-36 : BAND/DUAL
- S-39 : CH−RETURN
- S-40 : FREQUENCY−/CHANNEL−
- S-41 : FREQUENCY+/CHANNEL+
- S-42 : TV−POWER

TV
- S-43 : TV
- S-44 : VDP
- S-46 : VCR
- S-48 : TV−VOL−
- S-49 : TV−VOL+

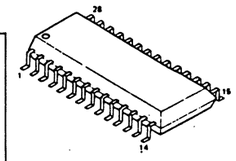
AMP
- S-51 : VCR1
- S-52 : VCR2
- S-53 : VDP/CDV
- S-54 : TV
- S-55 : V. SEL
- S-57 : TAPE1/DAT1
- S-58 : TAPE2/DAT2
- S-59 : CD
- S-60 : TUNER
- S-61 : PHONO
- S-64 : DISPLAY
- S-65 : SLEEP
- S-66 : RECEIVER POWER
- S-67 : MUTING
- S-68 : ➡ (SURROUND)
- S-69 : ⬅ (SURROUND)
- S-70 : MASTER VOLUME−
- S-71 : MASTER VOLUME+
- S-72 : ⬆ (SURROUND)
- S-73 : ⬇ (SURROUND)
- S-74 : SURROUND MODE
- S-75 : DELAY TIME
- S-76 : REAR R
- S-77 : REAR L
- S-78 : ACOUSTIC

External Appearance of Transistors and ICs.

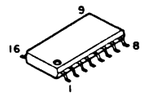
PD5068-A



AZC1045



AZC1046
AZC1047



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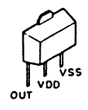
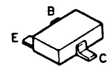
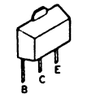


AZC1050
AZC1052



AZC1051



10.4 P.C.BOARD PATTERNS

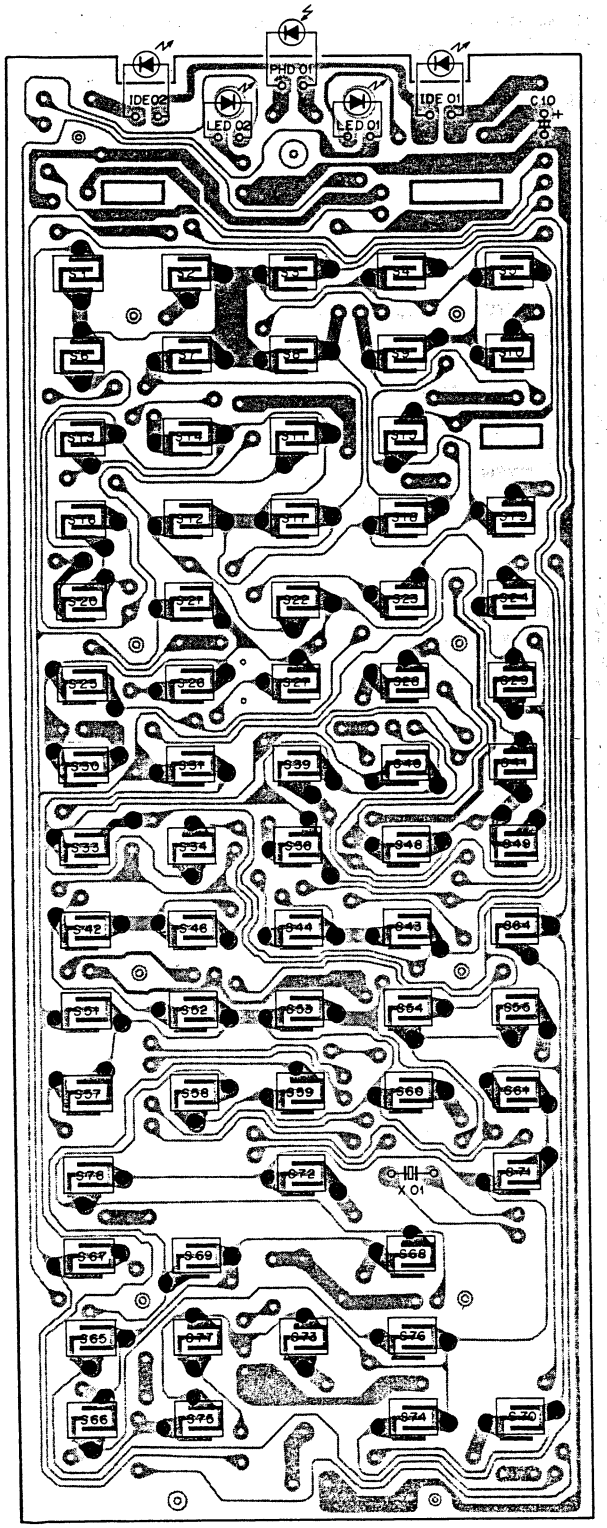
NOTE:

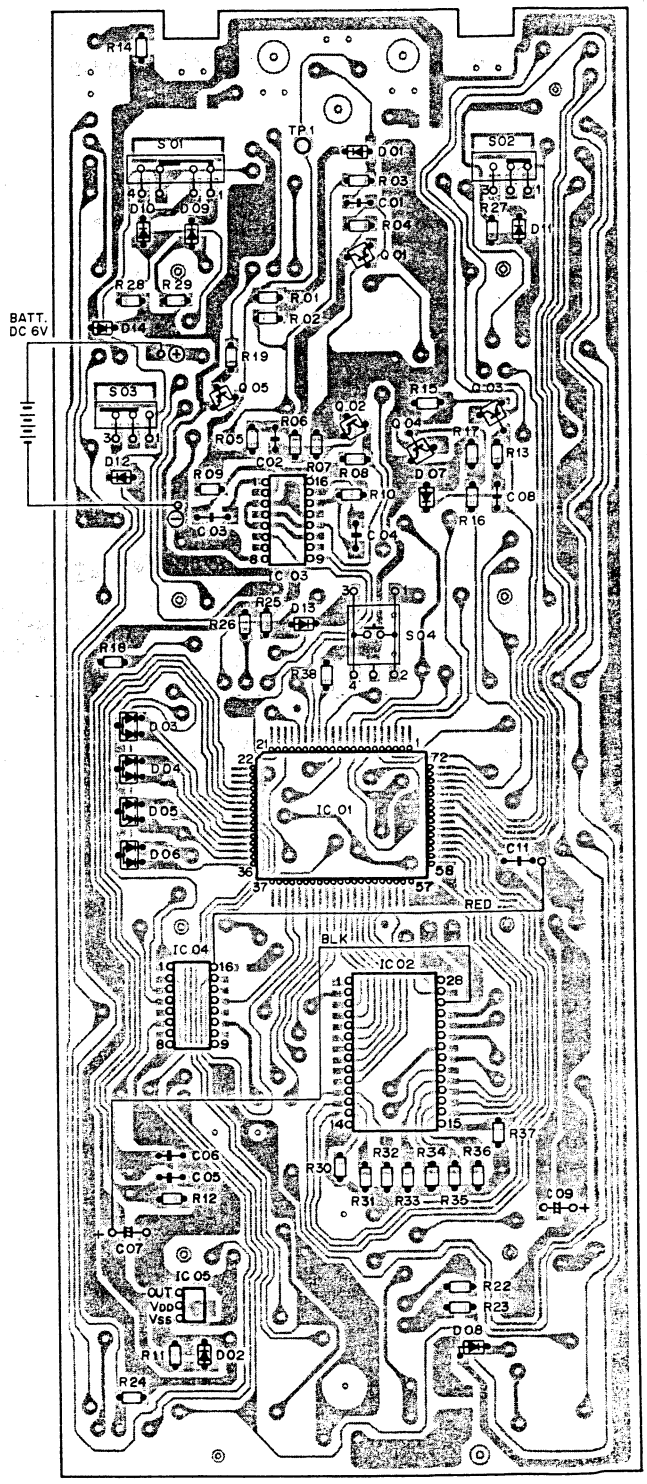
Indicates a chip resistor.

Indicates a chip capacitor.

Indicates a chip transistor.

Indicates a chip diode.





11. SPECIFICATIONS

Amplifier section
[POWER IN] FRONT

Continuous average power output of 100 watts* per channel , min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion.**

Continuous output power
- 1 kHz, 0.005%, 8 Ω (Front) ..... 110 W + 110 W**
- 1 kHz, 0.001%, 8 Ω (Front) ..... 100 W + 100 W**
- 1 kHz, 0.7%, 8 Ω (Rear) ..... 15 W + 15 W**

Dynamic power (2 Ω/4 Ω/8 Ω) ..... 230 W/200 W/150 W
Input (Sensitivity/Impedance)
- PHONO MM ..... 2.5 mV/50 kΩ
- CD, TAPE 1/DAT 1, TAPE 2/DAT 2, VDP/CDV, VCR 1, VCR 2 ..... 150 mV/50 kΩ
- FRONT POWER AMP IN ..... 1 V/50 kΩ

Phono Overload Level (T.H.D. 0.08%, 1000 Hz)
- PHONO MM ..... 130 mV

Frequency Response
- PHONO MM ..... 20 Hz to 20,000 Hz ±0.3 dB
- CD, TAPE 1/DAT 1, TAPE 2/DAT 2, VDP/CDV, VCR 1, VCR 2 ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$dB

Output (Level/Impedance)
- TAPE 1/DAT 1 REC, TAPE 2/DAT 2 REC ..... 150 mV/2.2 kΩ
- VCR 1 OUT, VCR 2 OUT ..... 150 mV/2.2 kΩ

Tone control
- BASS 100 Hz ..... ±8 dB
- TREBLE 10 kHz ..... ±8 dB
- VCR Noise Filter ..... 100 Hz, 5 kHz: −3 dB

Loudness contour ..... 6 dB (100 Hz), 3 dB (10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
- PHONO MM ..... 82 dB
- CD, TAPE 1/DAT 1, TAPE 2/DAT 2, VDP/CDV, VCR 1, VCR 2 ..... 98 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
- PHONO MM ..... 77 dB
- CD, TAPE 1/DAT 1, TAPE 2/DAT 2, VDP/CDV
- VCR 1, VCR 2 ..... 80 dB

Surround Section
- CENTER OUT (L = R = 75 mV input) ..... 2 V/1 kΩ

**Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.*
***Measured by Audio Spectrum Analyzer.*

VIDEO Section
Input (Level/Impedance)
VCR 1, VCR 2, VDP/CDV ..... 1Vp-p/75 Ω
Output (Level/Impedance)
VCR 1, VCR 2, MONITOR ..... 1Vp-p/75 Ω
Frequency Response
VCR 1, VCR 2, VDP/CDV, MONITOR ..... 5 Hz−10 M Hz ($^{+0}_{-3}$dB)
Signal to noise ratio ..... 55 dB
Cross talk ..... 55 dB
Enhancer (DETAIL) ..... 2 M Hz ±3 dB

FM Tuner Section
Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono; 10.8 dBf, IHF (0.95 μV/75 Ω)
50 dB Quieting Sensitivity ..... Mono; 15.3 dBf, (1.6 μV/75 Ω)
Stereo; 37.0 dBf, (19.5 μV/75 Ω)
Signal-to-Noise Ratio ..... Mono; 80 dB (at 65 dBf)
Stereo; 75 dB (at 85 dBf)
Distortion ..... Mono; 0.08% (100 Hz)
0.08% (1 kHz)
0.2% (6 kHz)
Stereo; 0.2% (100 Hz)
0.15% (1 kHz)
0.3% (6 kHz)
Capture Ratio ..... 1 dB
Alternate Channel Selectivity ..... 65 dB (400 kHz)
Stereo Separation ..... 48 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz ($^{+0.5}_{-2.0}$dB)
Image Interference Ratio ..... 50 dB
IF Interference Ratio ..... 80 dB
AM Suppression Ratio ..... 55 dB
Spurious Interference Ratio ..... 70 dB
Antenna Input ..... 300 Ω balanced
75 Ω unbalanced

AM Tuner Section
Frequency rage ..... When 10 kHz step 530 kHz−1,700 kHz
When 9 kHz step: 531 kHz−1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 300 μV/m
Selectivity ..... 30 dB
Signal to noise ratio ..... 50 dB
Image interference ratio ..... 35 dB
IF interference ratio ..... 65 dB
Antenna ..... Loop antenna

Miscellaneous
Power requirements
- U.S., Canadian models ..... AC 120V, 60 Hz
- Other destination models ..... AC 110/120-127/220/240V (switchable), 50/60 Hz

Power consumption
- U.S., Canadian models ..... 415 W, 540 VA
- Other destination models ..... 630 W
- In stand by condition ..... 3 W

AC Outlets
- SWITCHED x 2 ..... TOTAL 100 W MAX
- UNSWITCHED x 1
- U.S., Canadian models ..... 200 W MAX
- Other destination model ..... 100 W MAX

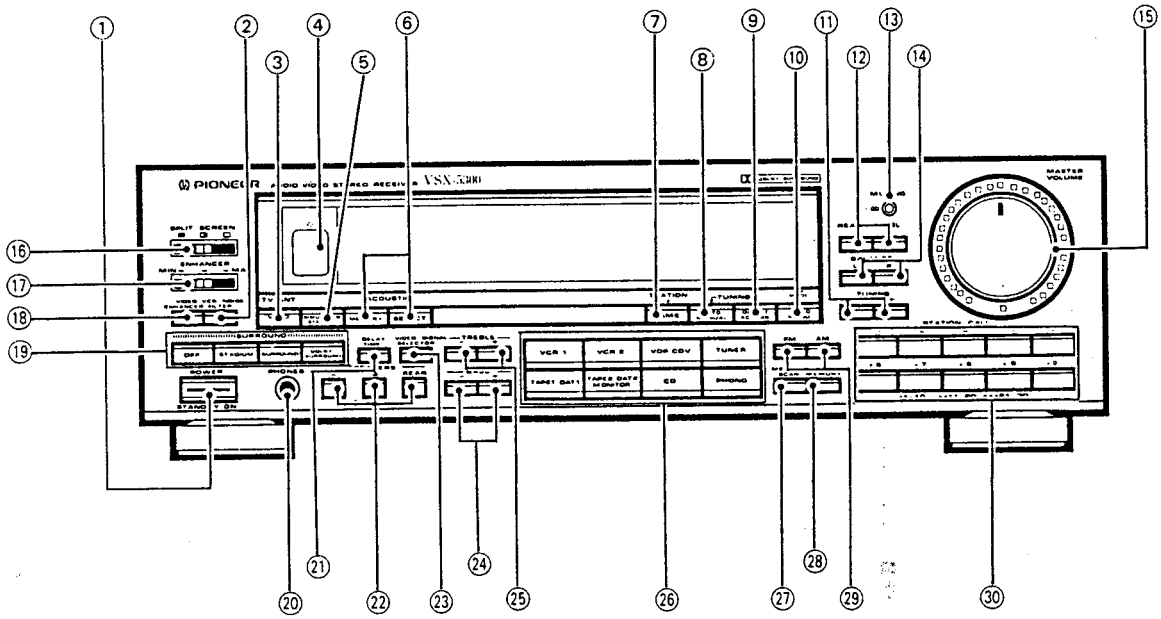
Dimensions ..... 420 (W) x 124 (H) x 401 (D) mm
16-7/16 (HW) x 4-7/8 (H) x 15-13/16 (D) in
Weight (without package) ..... 10 kg (22 lb 1 oz)

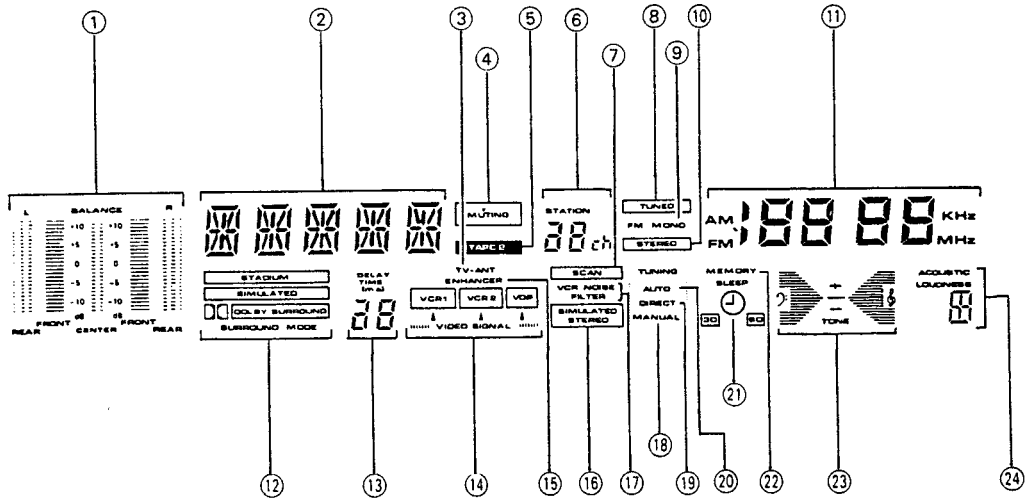
Furnished Parts
- FM T-type antenna 1
- AM Loop antenna 1
- Dry cell battery 2
- Remote control unit 1
- Operating instructions 1

NOTE:
Specifications and the design subject to possible modifications without notice due to improvements.

12. PANEL FACILITIES

• FRONT PANEL





① POWER STANDBY/ON switch

When this switch is pressed, power is supplied to the unit. Press the switch again to turn power off

[Timer ON/OFF pssible]

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

② VCR NOISE FILTER switch

If tape hiss is noticeable while performing playback of video cassette tapes, press this switch to reduce the noise.

After pressing this switch, "VCR NOISE FILTER" will appear on the display section.

NOTE:

- *This switch can be used when either VCR 1 or VCR 2 function switches is selected.*
- *The effectiveness in reducing high-frequency hiss noise varies depending on the type of tape used, the recording level, and other conditions.*

③ TV ANT (VIDEO/TV) selector switch

This switch can be used in place of the TV ANT switch on the RF Modulator JA-RF5 (sold separetely). This is effective only when the JA-RF5's TV ANT switch is set to the VIDEO position. For example:

In VIDEO mode (TV-ANT indicator in the display section goes out):

Allows you to use video components connected to the receiver.

In TV mode (TV-ANT indicator in the display section lights):

Connects the TV antenna, thus allowing you to view normal TV broadcasts, regardless of whether the receiver's POWER is ON or OFF.

NOTE:

- *When in the VIDEO mode, no sound will be produced from the TV set's speakers. Listen using the speakers connected to the receiver.*
- *Noise may be produced if the TV set's volume control is turned up. Turn down the set's volume control when listening.*
- *This switch functions only when the TV ANT selector switch on the RF Modulator is set to "VIDEO."*

④ Remote sensor

⑤ SIMULATED STEREO switch

Press to produce a simulated stereo effect when listening to monaural sources (for example, normal AM or TV broadcasts).

"SIMULATED STEREO" appears on the display section.

NOTE:

This effect is not produced through the surround speakers.

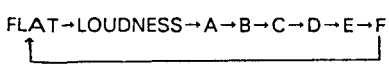
⑥ ACOUSTIC switches

MEMORY:

Pressing this switch will result in the memorization of the sound quality (tone control condition). Press again to cancel this mode.

SELECT

- This switch is used to preset the five acoustic memories (A—E).
- This switch is also used to recall previously set sound quality settings. Each time you press the switch, the sound quality setting advances in the order shown below.



FLAT: For flat (normal) frequncy response.

LOUDNESS:

Emphasizes the low- and high- frequency ranges. Produces a fuller sense of sound, particularly when listening at low volume.

A—E: Memorized acoustic memory settings.

Presetting the acoustic memory

1. **Adjust the sound quality as desired using the BASS and TREBLE control switches.**
   - Settings are shown by the TONE indicator on the display section.
2. **Press the ACOUSTIC MEMORY switch.**
   - The TONE indicator on the display section blinks on and off.
3. **Press the ACOUSTIC SELECT switch and select the acoustic memory to which you wish to assign the setting (A - E).**
   - The sound quality setting is memorized approximately two seconds after you last press the ACOUSTIC SELECT switch.

In this way, the desired tone will be preset in one of the five acoustic memory positions. To preset four other desired tone settings, perform the same operations.

To recall the memorized tone setttings, press the ACOUSTIC SELECT switch to select the desired memory position. In this way, five different tone settings can be preset and recalled in the five positions of the acoustic memory.

⑦ STATION NAME switch

This switch is used when inputting station names.

Press again to cancel this mode.

⑧ AUTO/MANUAL TUNING selector switch

This switched is used to select the tuning mode. The TUNING AUTO indicator lights when the AUTO tuning mode has been selected. The TUNING MANUAL indicator lights when the MANUAL tuning mode has been selected.

AUTO tuning

When the — or + TUNING switch is pressed, the receiver automatically scans the broadcast station frequencies. When a broadcast is detected, the scanning stops at that frequency.

NOTE:

Pressing the TUNING switch (— or +) while scanning is taking place causes scanning to stop.

MANUAL tuning

This lets you manually tune to particular broadcast frequencies. Each press of the + or — switch raises or lowers the frequency by one tuning step. For continuous scanning, keep the switch depressed, then release it to stop scanning.

⑨ DIRECT ACCESS TUNING switch

When this switch is pressed, the STATION CALL switches function as ten-key number switches for direct input of the desired reception frequency. Press again to cancel this mode.

If the input station falls outside of the receiver's tuning range, the display section will display a message: "UPPER" if the frequency is too high and "LOWER" if it is too low.

⑩ FM MODE AUTO/MONO selector switch

Use to select the auto stereo mode or monaural mode when listenig to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

Auto stereo mode:

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

Monaural mode:

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:

This switch has no effect on reception of AM broadcasts.

⑪ TUNING switches

+: Performs tuning from the currently displayed station frequency in ascending frequency order.

–: Performs tuning in order to descending frequencies.

⑫ REAR LEVEL (–, +) switches

Operate only when the surround mode is on.

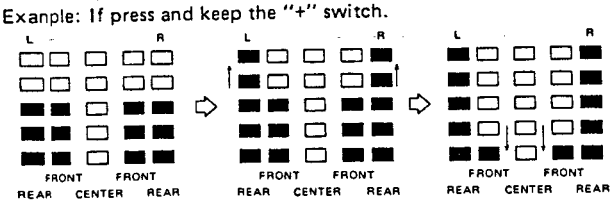
These switches are used to preset the sound level difference between the front and surround speakers. In this way, after presetting the difference, the overall volume of the front and surround speakers can be changed using the MASTER VOLUME control, while still maintaining the sound volume differential.

– : Surround speaker volume is reduced.

+ : Surround speaker volume is increased.

Press – and + together to restore front and surround to the default volume balance setting.

Exanple: If press and keep the "+" switch.



⑬ MUTING switch

Press to temporarily cut off the sound volume. The display section MUTING indicator will flash. When pressed again, the sound will return to its previous level.

⑭ BALANCE switches

Use to adjust the sound volume balance between left and right speakers.

L: Press to decrease the sound on the right side.

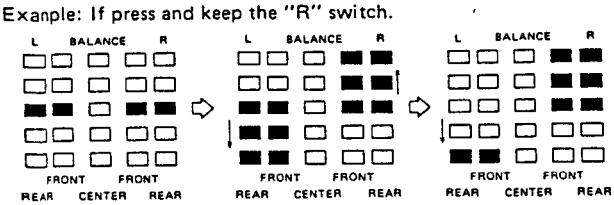
R: Press to decrease the sound on the left side.

Press L and R together to bring the volume balance back to center.

NOTE:

The left-right sound volume balance cannot be adjusted independently on the front and surround speakers.

Exanple: If press and keep the "R" switch.

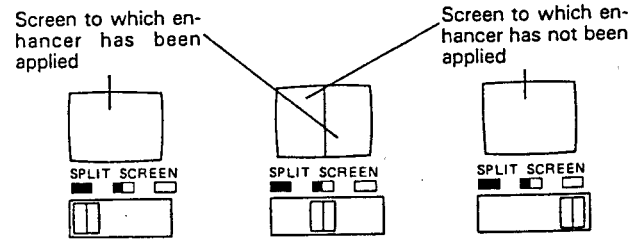


⑮ MASTER VOLUME control

Use to simultaneously adjust the sound volume from the front and surround speakers.

⑯ SPLIT SCREEN control

This control allows you to freely control the area of enhanced picture (on right side of screen) and original picture (non-enhanced, on left side of screen) by means of a vertical line dividing the screen into two stations.


Screen to which enhancer has been applied
Screen to which enhancer has not been applied
SPLIT SCREEN
SPLIT SCREEN
SPLIT SCREEN

NOTE:

This line is not output from the VCR (VCR1 and VCR2) VIDEO OUT jacks. As a result, the split screen image is not recorded; the recorded image will be entirely that produced by the enhancer function.

⑰ ENHANCER control

When performing tape copying with a VCR, some deterioration in image quality occurs normally. This control allows compensation for this deterioration in image quality by emphasizing image detail.

NOTE:

The ENHANCER control functions to suppress image deterioration, but will not improve image quality beyound its original state.

⑱ VIDEO ENHANCER switch

Turns the built in video enhancer on and off. When it is ON, the ENHANCER control can be used to sharpen the playback video image. Using the SPLIT SCREEN function will enable you to compare the enhanced and original (unenhanced) images.

⑲ SURROUND Mode Selector Switches

OFF:

To cancel the surround function.

STADIUM:

Ideal for sports broadcasts, etc.

SIMULATED SURROUND:

Gives concert-hall presence to monaural sound (AM, TV, etc.).

DOLBY SURROUND:

Select this setting when watching video tapes or video discs bearing the DD DOLBY STEREO or DD DOLBY SURROUND mark.

⑳ PHONES jack

Connect the plug on your headphones to this jack. To listen to a program through the headphones, set both SPEAKERS A and B switches to the OFF position.

㉑ DELAY TIME switch

Operates only when the surround mode is ON.

Switches to sorround delay time in three steps. For DOLBY SURROUND, 20ms is standard.

15ms → 20ms → 30ms

㉒ SPEAKERS switches (A, B, REAR) ▙ OFF ▁ ON

ON/OFF switches for the A, B and REAR (surround) speaker systems.

㉓ VIDEO SIGNAL SELECTOR switch

When recording simulcast programs, the recorded image can be selected from among VCR1, VCR2 and VDP.

VCR1→VCR2→VDP→OFF

The current setting is shown by an indicator on the display section.

㉔ BASS control switches
Use to adjust the low-frequency level. Press the + switch to increase low-frequency level, and the − switch to decrease it.
The TONE indicator appears on the display section.
When both switches (+, −) of the BASS control are pressed simultaneously, the bass response will be set to the flat (normal) condition.

㉕ TREBLE control switches
Use to adjust the high-frequency level. Press the + switch to increase high-frequency level, and the − switch to decrease it.
The TONE indicator appears on the display section.
When both switches (+, −) of the TREBLE control are pressed simultaneously, the treble response will be set to the flat (normal) condition.

㉖ Audio/Video INPUT SELECTOR switches
VCR1: Press when performing playback on a VCR unit.
VCR2: Press when performing playback on a second VCR unit.
VDP/CDV: Press when performing playback on a video disc player (VDP) or CDV player.
TAPE1/DAT1: Press when performing playback on a DAT or tape deck.
TAPE2/DAT2 MONITOR: Press when performing playback on a second tape deck or second DAT and when monitoring recording.
CD: Press when playing compact discs on a CD player.
TUNER: Press when listening to radio broadcasts.
PHONO: Press when playing records on turntable.

㉗ MEMORY SCAN switch
Operates when the INPUT SELECTOR is set to TUNER. Station frequencies assigned to the STATION CALL switches are tuned in, one after another beginning with station no. 1, for approximately 5 seconds each.
The display section SCAN indicator will light. Press the switch again and the tuner remains tuned in to the station playing when the switch was pressed the second time.
Station frequencies not assigned station numbers in the memory are skipped.

㉘ MEMORY switch
When the unit is in the frequency display mode, pressing this switch will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode.
This switch is also used to input station names.

㉙ BAND selector switches
FM: Press for FM reception.
AM: Press for AM reception.

㉚ STATION CALL switches
Each preset can hold any AM or FM station.
- These switches are used to preset and recall desired broadcasting stations, FM AUTO/MONO mode.
  The rear panel STATION PRESET 10/30 switch determines the number of possible presets per STATION CALL switch.
  10: One per switch.
  30: Three per switch.
  If you press the [2] key:
  - One time — station 2 is selected.
  - Two times — station 12 is selected.
  - Three times — station 22 is selected.

NOTE:
Pressing a BAND selector switch or STATION CALL switch will select TUNER as the source, regardless of what other listening source or function was selected.

[DISPLAY SECTION]

① LEVEL/BALANCE display

② INPUT SELECTOR

③ TV-ANT indicator
Lights when TV mode is selected with the TV ANT switch.

④ MUTING indicator

⑤ TAPE 2 indicator
Lights when the INPUT SELECTOR is set to TAPE 2 MONITOR ON.

⑥ STATION No. display
Shows the channel selected with the STATION CALL switch.

⑦ SCAN indicator
Lights during memory scan operation.

⑧ TUNED indicator
Lights when a station is tuned in during TUNER operation.

⑨ FM MONO indicator
Lights when the FM MONO mode is selected with the FM MODE switch.

⑩ STEREO indicator
Lights when a stereo FM broadcast is being received.

⑪ Frequency display

⑫ Surround mode indicators

⑬ DELAY TIME display
Shows the delay time during surround operation.

⑭ VIDEO SIGNAL SELECTOR indicators
Shows the video component selected with the VIDEO SIGNAL SELECTOR switch.

⑮ ENHANCER indicator
Lights when the video enhancer is on.

⑯ SIMULATED STEREO indicator

⑰ VCR NOISE FILTER indicator
Lights when the VCR NOISE FILTER switch is in the ON position.

⑱ MANUAL TUNING indicator
This indicator lights when in the manual tuning mode.

⑲ DIRECT TUNING indicator
This indicator lights when in the direct access-tuning mode.

⑳ AUTO TUNING indicator
This indicator lights when in the auto tuning mode.

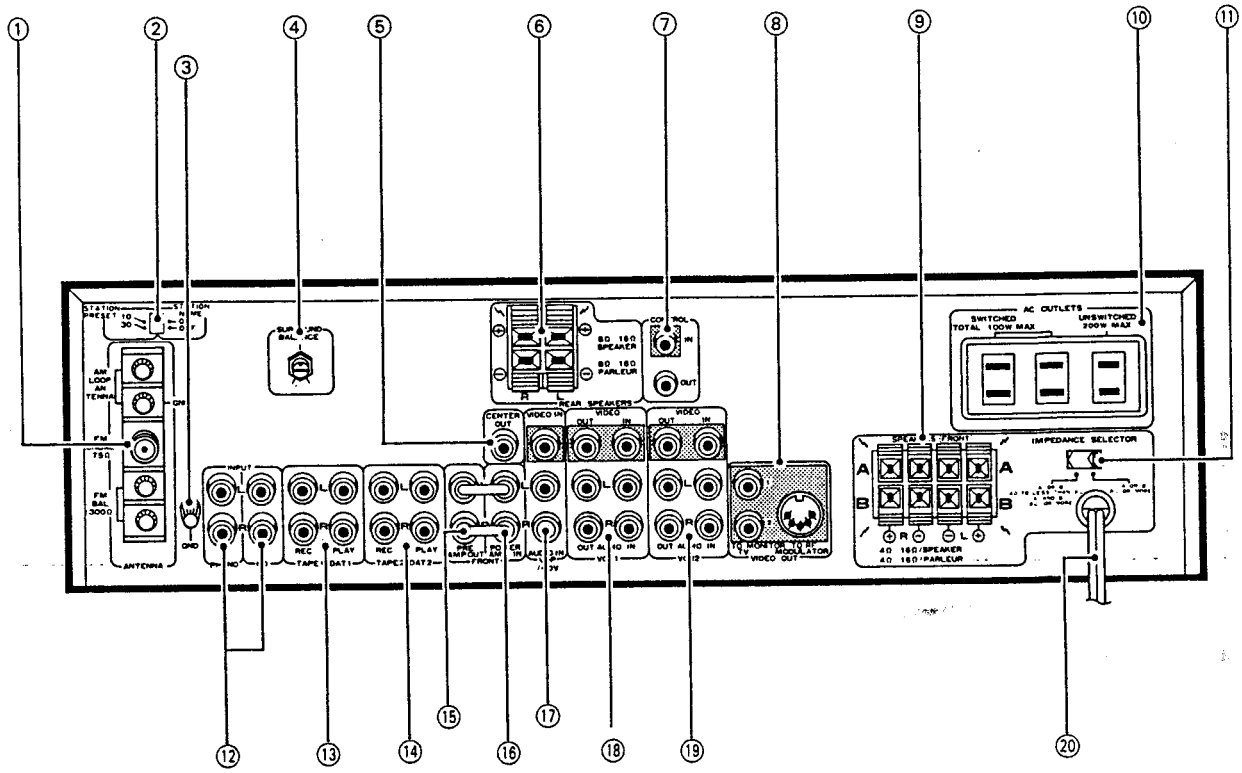
㉑ SLEEP timer indicators
Shows the SLEEP timer setting (the length of time from the set time to the point at which power will switch off). (The sleep timer can be operated via the remote control.)

㉒ MEMORY indicator

㉓ TONE level meter
Shows the settings of the BASS and TREBLE switches.

㉔ ACOUSTIC display
Shows the setting of the ACOUSTIC SELECT switch.

• REAR PANEL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AC OUTLETS
SWITCHED
TOTAL 100W MAX
UNSWITCHED
200W MAX
IMPEDANCE SELECTOR
ANTENNA
REAR SPEAKERS
CENTER OUT
VIDEO IN
VIDEO
INPUT
REC
PLAY
TAPE
DAT1
DAT2
FRONT
SPEAKERS
TO MONITOR TV
TO RF MODULATOR
VIDEO OUT

① FM/AM ANTENNA terminals
Use these antenna terminals for reception of normal FM and AM broadcasts.

② STATION PRESET/STATION NAME switch
Determines the number of presets possible using the STATION CALL switches.
10: You can store a name for each station at this position, but each STATION CALL switch can store one station (10 station total).
30: Each STATION CALL switch can store three stations (30 stations total). (Press once, twice, or three times to select.)

③ GND terminal
Connect the turntable ground lead to this terminal.

④ SURROUND BALANCE control
Use to adjust the surround effect from the surround speakers. Normally leave in the center position. When inputting a monaural signal, adjust so that the surround output is minimum.

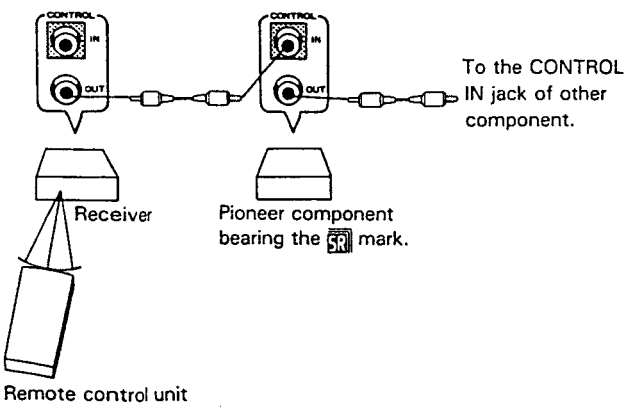
⑤ CENTER OUT jack
This is the Dolby surround center channel signal output jack.It can also be used as a 3D system MONO output.

⑥ REAR SPEAKERS terminals
Connect the surround speakers to these terminals.

NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.
Use surround speakers of impedance 8Ω — 16Ω.

⑦ REMOTE CONTROL IN/OUT jacks
IN: Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.
OUT: Connect this jack to other Pioneer components when using the remote control of this units to control the other components.

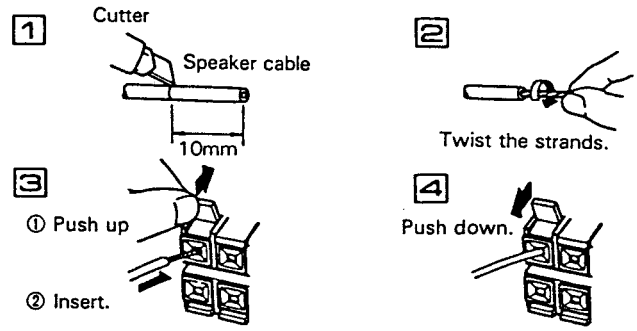
NOTE:
The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.



⑧ VIDEO OUT jacks
Use to connect a TV set for watching program materials from a VCR or VDP/CDV connected to this unit.
[TO MONITOR TV jacks]
Connect to monitor TV or to TV sets with video input terminals.
[TO RF MODULATOR jack]
Use to connect a normal TV set. When performing connections, the RF MODULATOR JA-RF5 (sold separately) is required. By connecting an RF modulator, video signals can be converted to VHF signals (U.S. channel 3 or 4), thus allowing this unit to be used to view the selected source on a normal television set.

NOTE:
A "normal TV set" as noted above is one for which RF connections alone are possible.
Sound is not output from the TO RF MODULATOR jack. Use the speakers connected to this unit to listen to the sound.

⑨ SPEAKERS (FRONT) terminals
A: Connect to a first set of speakers.
B: Connect to a second set of speakers.
Speaker lead wire preparation and connection.



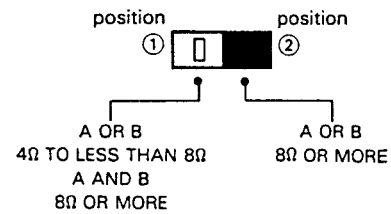
NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contacts with each other.
Use speakers of impedance 4Ω — 16Ω. Also set the IMPEDANCE SELECTOR switch to match the impedance of your speakers.

⑩ AC OUTLETS
(SWITCHED TOTAL 100W MAX)
Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equippment should not exceed 100W.

(UNSWITCHED 200 W (U.S. and Canadian model), 100 W (Multi-voltage model) MAX)
Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 200 W (U.S. and Canadian model), 100 W (Multi-voltage model).
The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:
Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS in order to avoid overheating or fire risk.
This can cause the receiver to malfunction.

⑪ IMPEDANCE SELECTOR switch
Set this switch to match the impedance of your speakers.



• When using a pair of speakers:

Impedance of a speaker	Selector position
4Ω to less than 8Ω	①
8Ω or more	②

• When using two pairs of speakers:
Select ② as the selector switch position and use speakers having impedance of 8 ohms or more.

NOTE:
Turn off the receiver's power before changing the impedance selector switch setting.

⑫ INPUT jacks
PHONO ..... connect to the output cables from a turntable.
CD ..... connect to the output jacks of a compact disk player.

⑬ TAPE1/DAT1 jacks
Use these to connect TAPE DECK 1 or DAT (digital audio tape deck) 1.
Connecting for Recording
The tape recording jack (TAPE REC) on the tape deck or DAT should be connected to the REC side of the TAPE1/DAT1 jack on the receiver with a pin plug connecting cord.
Connecting for Playback
Connect the TAPE PLAY jack on the tape deck or DAT to the PLAY side of the TAPE1/DAT1 jack on the receiver with a pin plug connecting cord.

⑭ TAPE2/DAT2 jacks
Connect a second tape deck or second DAT to these jacks.
Connecting for Recording
The tape recording jack (TAPE REC) on the tape deck should be connected to the REC side of the TAPE2/DAT2 jack on the receiver with a pin plug connecting cord.
Connecting for Playback
Connect the TAPE PLAY jack on the tape deck to the PLAY side of the TAPE2/DAT2 jack on the receiver with a pin plug connecting cord.

⑮ FRONT PRE-AMP OUT jacks
When a separate power ampifier is used to drive the front speakers, connect the power amplifier to these jacks.

⑯ FRONT POWER AMP IN jacks
When a separate pre-amplifier is connected and this unit is used as power amplifier, connect the pre-amplifier to these jacks.

⑰ VDP/CDV jacks
[VIDEO IN]
When watching the video image from a LD player (VDP) or a CDV player, connect its VIDEO OUTPUT jacks here.
[AUDIO IN (L,R)]
When playing back the audio channel from a LD player (VDP) or a CDV player, connect its AUDIO OUTPUT jacks here.

⑱ VCR1 jacks
[VIDEO OUT]
When copying program material from the video component connected to the VCR2 or VDP/CDV jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.
[AUDIO OUT (L,R)]
When copying program material from the video component connected to the VCR2 or VDP/CDV jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.
[VIDEO IN]
When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.
[AUDIO IN (L, R)]
When monitoring back the audio channnel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑲ VCR2 jacks
[VIDEO OUT]
When copying program material from the video component connected to the VCR1 or VDP/CDV jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.
[AUDIO OUT (L,R)]
When copying program materials from the video component connected to the VCR1 or VDP/CDV jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.
[VIDEO IN]
When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.
[AUDIO IN (L, R)]
When monitoring the audio channnel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑳ Power cord

• PROGRAMABLE REMOTE CONTROL UNIT FOR VSX-5300S/KUC TYPE (AXD1055)

LEARNING FUNCTIONS

Introduction

This system remote control can "learn" the commands of other remote control units, regardless of manufactur, as long as the other unit is of the infrared type.
In some cases you may still need the original remote control unit for special situations. But as a rule, you will be able to use this Pioneer remote for most system control needs, including video as well as audio equipment.

NOTE:
When using the "LEARN" mode it is a good idea to take the two remote control units to another room. This avoids problems such as sudden high volume output or accidental tape erasure that may occur if particular infrared command signals reach your components. Alternatively, you may wish to unplug your component system. Simply turning off the power may not be sufficient since power on/off switching may also be remote-controllable.

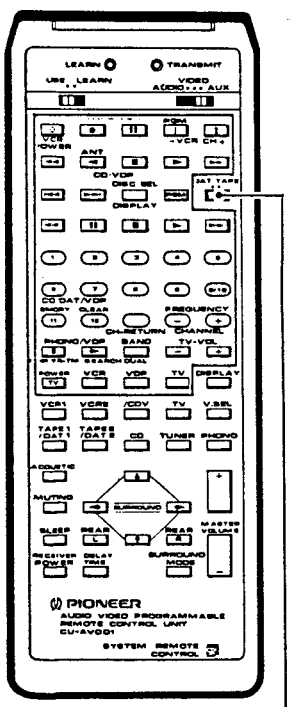
Which keys can be programmed with new commands?

There are two mode selector switches near the front end of the remote. The LEARN mode selector lets you select the USE or LEARN function. The LEARN mode allows the Pioneer remote to "LEARN" the commands of other remote control units. The USE mode allows you to use this remote control unit for operation of your system.

The keys on the remote control unit change their functions according to how the TRANSMIT mode selector is set. You can switch the TRANSMIT mode between the AUDIO, VIDEO, and AUX modes. However, the keys in the SURROUND AMPLIFIER section always have the same functions.
You can assign new commands to the keys in each of the modes. In the AUX mode, all keys are available to be programmed with new commands. In the VIDEO and AUDIO modes, all keys except the SURROUND AMPLIFIER keys can be assigned new commands.
When you first start using the remote control unit, it contains initial commands appropriate for Pioneer components (when set to the AUDIO and VIDEO modes). If your audio and video equipment consists of Pioneer components exclusively you can use the remote control unit as is. It is also possible to restore the original Pioneer commands after assigning other commands. (Refer to "Returning to the Initial Settings" for this procedure.)

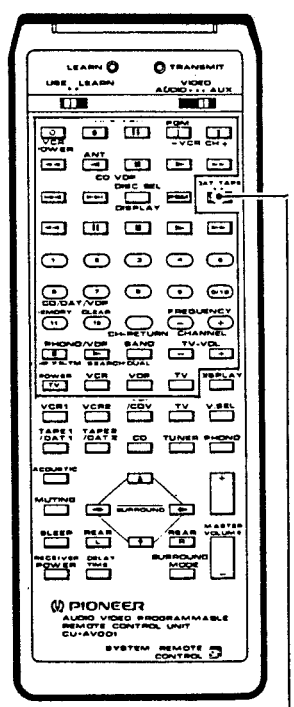
- In each mode one function per key may be programmed, for a total of up to 154 functions.
- When presetting keys, make sure that the remote control units of both this and the other component are loaded with fresh batteries.
- For some special types of infrared remote control units, programming may be impossible.

AUDIO mode



In the AUDIO mode the TAPE function keys can be preset with new functions for the DAT position or the TAPE position.
The initial settings will remain in the other position (43 keys can be programmed.).

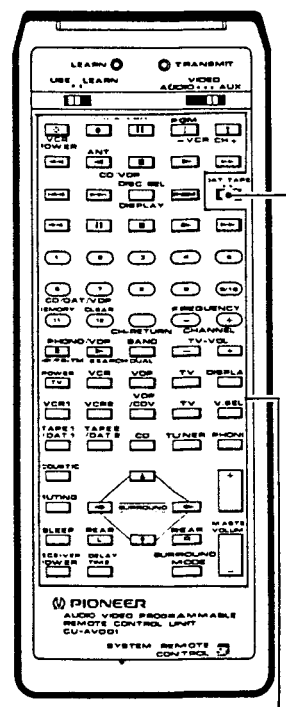
VIDEO mode



In the VIDEO mode the DAT/TAPE 1 switch is inoperative (43 keys can be programmed.).

When teaching functions whose names differ from those of the keys, write in the names or codes of the functions on the included templates and place on the panel.

AUX mode



All buttons can be preset (68 keys can be programmed.).

In the AUX mode the DAT/TAPE switch is inoperative.

Questions and Answers about the Learning Function

Q: The remote control unit of my VCR has two REC (recording) keys. They both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (for example, the VCR ● key) until the LEARN indicator lights up, and then press the two keys on the VCR remote control simultaneously.

Q: The remote control unit of my VCR has a REC (recording) key and a PLAY (playback) key and they both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (for example, the VCR ● key) until the LEARN indicator lights up, and then press the REC and PLAY keys on the VCR remote control simultaneously.

- As described above, operations which require two keys to be pressed at the same time are programmed by pressing the two keys simultaneously.

Operating other equipment using the programmable remote control unit

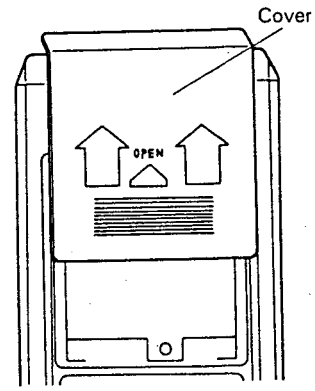
1. Set the LEARN switch of the programmable remote control unit to the USE position.
2. Set the TRANSMIT mode selector switch to the desired position (AUDIO/VIDEO/AUX).
   - Set to the VIDEO position for programming as described in the example.
3. Press the key of the desired function.
   - The TRANSMIT indicator lights up while the remote control unit is sending codes.

NOTE:

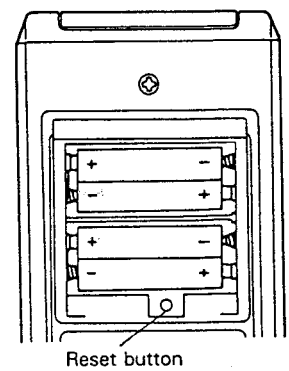
- *When operating programmed keys, always set the LEARN switch to the USE position. Operation is not possible in the LEARN position.*
- *For functions which require two keys to be pressed at the same time (recording, etc.) or functions for which several codes are sent simultaneously (auto functions, timer programming, etc.) the programming procedure is different and improper operation may occur.*

Returning to the Initial Settings

1. Set the LEARN selector switch to the LEARN position.
2. Remove the battery cover.

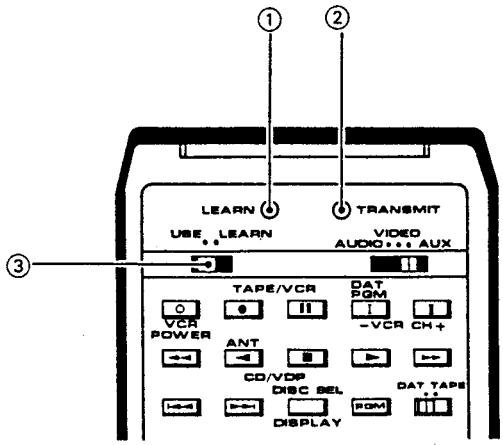


3. Press any of the keys available for programming. The LEARN indicator will illuminate.
4. Use a ball-point pen or similar object to press the RESET key while the LEARN indicator is flashing.



- The programmed functions for the AUDIO, VIDEO and AUX positions are cleared, and the remote control unit is reset to the Pioneer uniform remote control codes.
- Press the button gently; do not use excessive force.

[Operation Example]
Using the remote control unit of your VCR to program the playback command:
- It is recommended that the name of the key and its function correspond. This is convenient when operating equipment.

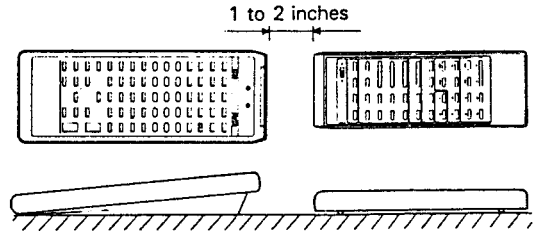


① LEARN indicator
This indicator shows the remote control unit operating condition.
LIT:
Learning is possible.
OFF:
Regular remote control functions are performed.
FLASHING:
Means the key is not available for programming a new command in the current mode.

② TRANSMIT indicator
This indicator flashes when remote control signals are sent.

③ LEARN selector switch
Set as follows:
LEARN:
This position is used for storing the codes of your remote control unit.
USE:
Set to this position after codes have been stored in the LEARN position. Set to this position for normal operation.

[Operation example]
1. Set the LEARN switch of the programmable remote control unit to the LEARN position and set the TRANSMIT mode selector switch to the VIDEO position.
   - Programming is possible with the TRANSMIT mode selector switch in any position, but VIDEO is used as an example.
2. Place the transmission sections of the programmable remote control unit and the remote control of the VCR facing each other.



   - Place the two units on a table, separated by 2 to 5 cm (1 to 2 inches).
     Memorization will not be possible if they are too close.
3. Hold down the VCR PLAY key of the Programmable remote control unit until the LEARN indicator lights up, then release the key.
4. Hold down the PLAY key of the VCR remote control unit.
5. Release the key of the VCR remote control unit after making sure that the LEARN indicator has gone out on the Pioneer remote control unit.

NOTE:
If the LEARN indicator flashes, it indicates that you are trying to preset a key not available for the learning function. Otherwise the program capacity has been exceeded, the function programmed last will not be memorized correctly. All previously programmed functions, however, will be retained in memory and may be used as they are if the last function is not essential. For re-programming refer to "Returning to the Initial Settings."

6. Set the LEARN selector switch of the programmable remote control unit to the USE position.
   - The previous code (Pioneer uniform remote control code or code for other equipment) is erased and replaced by the new code.
7. Check that the program works.
   - Try actual operation and make sure the unit works properly.
   - If the VCR does not operate when pressing the key, change angle, position and distance between the remote control units and repeat the programming procedure.
   - When programming, make sure that the function indications (for example, ► , ►► , ■) on the other remote control unit and the programmable remote control unit are the same. This will facilitate operation.